

# ASTER/PALSAR Unified Search Site

## User's Manual

June 25, 2012

Revision History			
Version	Date	Description of Revision	Remarks
First ver.	2012/06/25	Release of the first version	-

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## 1. About ASTER/PALSAR Unified Search

### 1.1. What's ASTER/PALSAR Unified Search?

[ASTER/PALSAR Unified Search] offers services to search and order ASTER data products and PALSAR data products together on the Web.

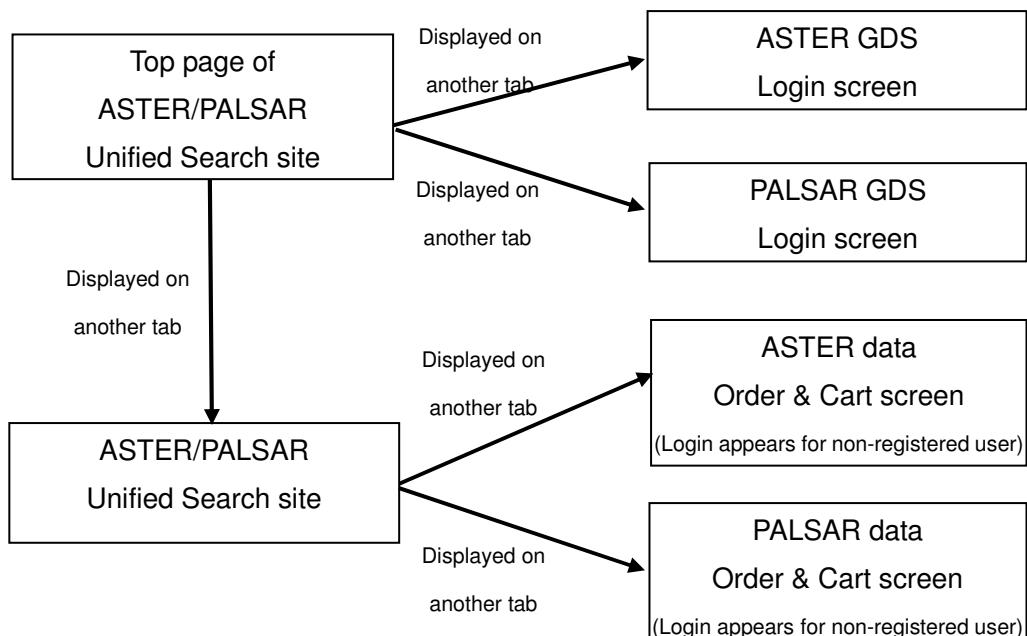
The recommended Web browsers for [ASTER/PALSAR Unified Search] are Internet Explorer 7.0 or later and Fire Fox 12.0 or later.

### 1.2. Access to ASTER/PALSAR Unified Search site

Top page of ASTER/PALSAR Unified Search site is accessible from the below URL.

<http://gds.ersdac.jspacesystems.or.jp/?lang=en>

Structure of the top page is described as below. Login screen and Order & Cart screen are in Product Order site of ASTER GDS and PALSAR GDS respectively.



**Fig. 1.2-1 Structure of ASTER/PALSAR Unified Search site**

User accounts obtained at User Registration site of ASTER and/or PALSAR GDS can be used at this Unified Search site. However, to order ASTER data products, user account for ASTER is required, and to order PALSAR data products user account for PALSAR is required.

To display mosaic images on map as background layer, it is required to login using either

user account. For mosaic images, detailed description is provided in [3.7 Switch layers].

### **1.3. Definitions**

#### **■ASTER L1A Product**

ASTER L1A product is generated by applying realignment processing to ASTER observation data. Geometric and radiometric correction coefficients including SWIR parallax correction and inter-telescope miss-registration correction are appended. But these corrections are not applied to the image data.

#### **■PALSAR L0 Virtual Scene**

PALSAR L0 virtual scene is the theoretically framed scene coverage on the earth surface. The coverage is calculated from observation time and orbit information of raw data (level 0 data).

#### **■PALSAR L1.0 Virtual Scene**

PALSAR L1.0 virtual scene is the theoretically framed scene by applying data editing such as bit realignment (L1.0 processing) to generate L1.0 product. SAR recovery processing is not yet applied to L1.0 product. In the process of generating L1.0, browse image of the L1.0 virtual scene is created. Orbit information to be used for L1.0 processing is High Accuracy Orbit Information, Orbit Determination Value, GPSR, and Estimated Orbit in descending order of accuracy. The most accurate orbit information held in PALSAR GDS at the time of processing is used.

#### **■Inventory**

Inventory is the catalog information on each scene, such as observation time, geolocation, cloud coverage for ASTER, and quality assurance of image data. Inventory information on the generated products is stored and managed in the database. By inventory search described in later part, inventory information managed at GDS can be retrieved under the specified search conditions.

#### **■Granule**

Granule is the smallest aggregation of data for observation to be stored, managed, and delivered at GDS. Each scene has a granule ID to identify its corresponding inventory.

## ■Interferometry Processing

This processing is applied to SAR data in order to measure terrain and extract change of terrain by interfering two data of the same area which were observed on different date and time in the same conditions.

### 1.4. Services Provided at ASTER/PALSAR Unified Search Site

ASTER/PALSAR Unified Search site provides the following services.

#### 1.4.1. Data Products Search Service

Data product search service provides simultaneous search for ASTER data product (L1A scene) and PALSAR data products (L0 virtual scene and L1.0 virtual scene).

Data product search is performed by the below methods.

##### 1.4.1.1. Inventory Search

Products can be searched by specifying inventory information such as observation time and area as search conditions. The products to be retrieved are L1A product for ASTER, and L0 virtual scene and L1.0 virtual scene for PALSAR. ASTER and PALSAR scenes are cross-searchable.

After selecting scenes to order from the search result, the selected scenes are put into Cart.

##### 1.4.1.2. Granule ID Search

Products can be searched by specifying granule IDs. The products to be retrieved are L1A product for ASTER, and L0 virtual scenes, L1.0 virtual scenes, and processed products for PALSAR. Although granule IDs for ASTER processed products can also be specified, the search result is for L1A only. More than one granule ID and Granule IDs for both ASTER and PALSAR scenes are searchable at one time.

After selecting scenes to order from the search result, the selected scenes are put into Cart (excluding PALSAR processed products).

##### 1.4.1.3. Interferometry Pair Search

Interferometry pair search is for PALSAR L0 virtual scene and L1.0 virtual scene only.

This search has two types of search methods; Master Image Granule ID and AOI.

Master Granule ID search requires to specify a granule ID for master image and to set search conditions for the data to be used for interferometry processing (slave image). Slave images which have the same path number, row number, and off-nadir angle as the

master image and match the specified search conditions are retrieved. The scenes to order can be selected from the search result and put into Cart.

AOI search requires to set the search conditions to collect scenes which can be master image and slave image by specifying the target area (AOI) on map. Firstly, virtual scenes to match the search conditions are retrieved. Secondly, the retrieved virtual scenes are divided in groups having the matching path number, row number, and off-nadir angle. Thirdly, a scene in the group is considered as master image and others as slave images to calculate the perpendicular baseline (Bperp) between the master image and slave images. This processing is applied to all the scenes in the group considering all the scenes as master image. Lastly, master images whose perpendicular baseline to the slave images is shorter than the specified value are retrieved as search result. Information on the retrieved interferometry pairs can be downloaded in CSV file. But, the search result retrieved through this search method cannot be put into Cart.

#### **1.4.1.4. Matching Scenes Search**

ASTER and PALSAR scenes, which include the center point of a base scene selected from search result in their scene coverage, can be searched. Observation mode for ASTER and PALSAR and cloud coverage for ASTER can be specified as search condition individually to perform a search.

In this search method, search starts from the search result list only, which is different from other search methods.

#### **1.4.2. Data Product Order Service**

Scenes retrieved through Data Product Search Service can be put into cart and ordered. Processing parameters for each product are specified in the ordering process to request higher level products.

The service after putting scenes in cart is provided on Product Order site of ASTER GDS and PALSAR GDS respectively.

User certification on ASTER GDS is required to order ASTER products and user certification on PALSAR GDS to order PALSAR products.

## **2. Operation Procedures**

### **2.1. Outline of Top Page of ASTER/PALSAR Unified Search Site**

The top page of ASTER/PALSAR Unified Search site is described below.

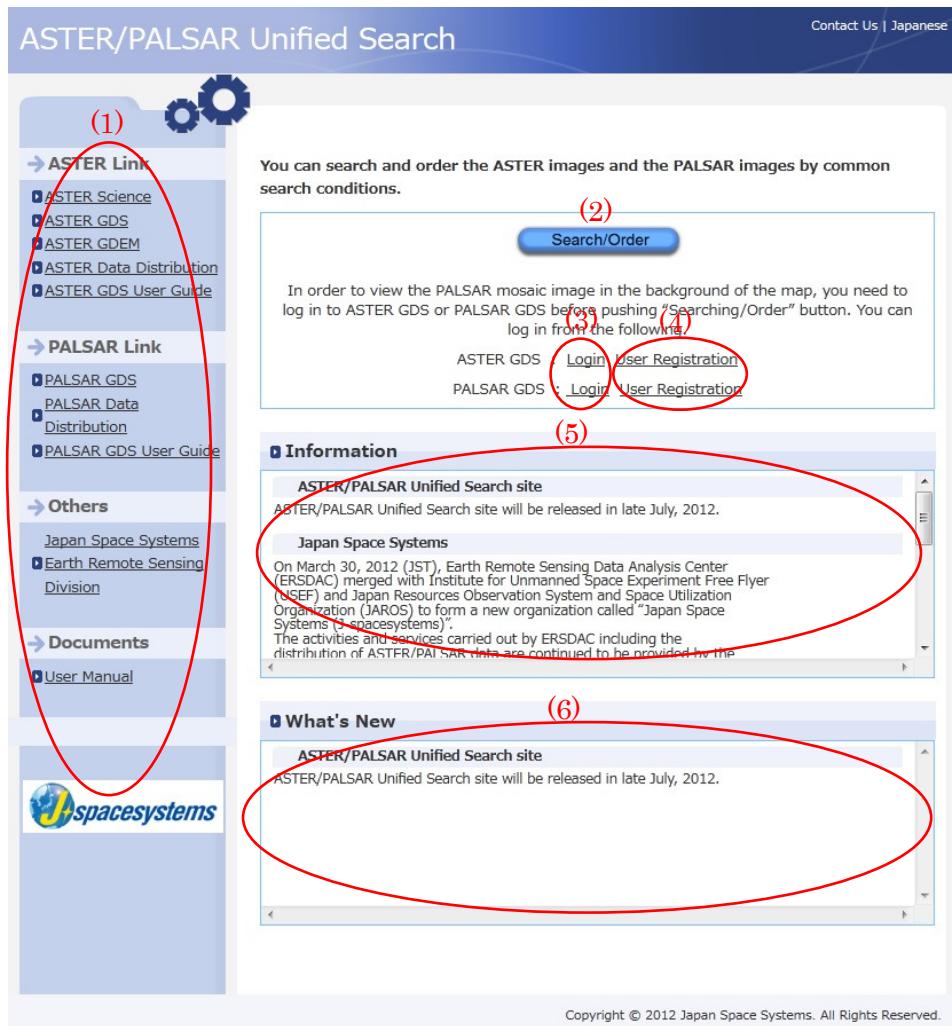


Fig. 2.1-1 Top page of ASTER/PALSAR Unified Search site

Table 2.1-1 Contents on top page of ASTER/PALSAR Unified Search site

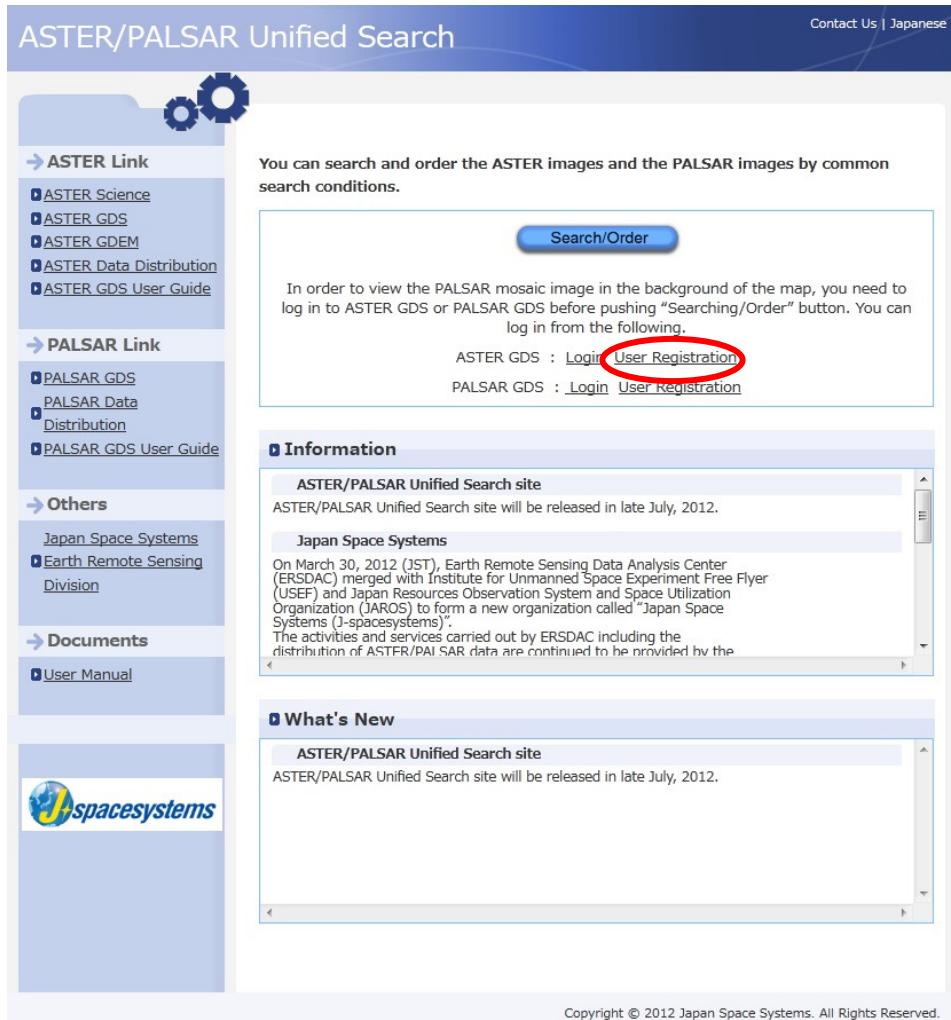
No.	Contents	Description
(1)	Links on side menu	Links to ASTER and PALSAR-related pages and User Guide for the unified search site
(2)	[Search/Order] button	ASTER/PALSAR Unified Search page appears on a new tab by clicking this button
(3)	[Login] link	Login page for ASTER GDS and PALSAR GDS appears on another tab when clicking this link
(4)	[User Registration] link	User Registration page for ASTER

		GDS and PALSAR GDS appear on another tab when clicking this link
(5)	Information	Information on ASTER/PALSAR Unified Search site is announced
(6)	What's New	Latest information on ASTER/PALSAR Unified Search site is posted

## 2.2 User Registration

### 2.2.1. Apply for ASTER User Registration

Click [User Registration] of ASTER GDS on the top page of ASTER/PALSAR Unified Search site.



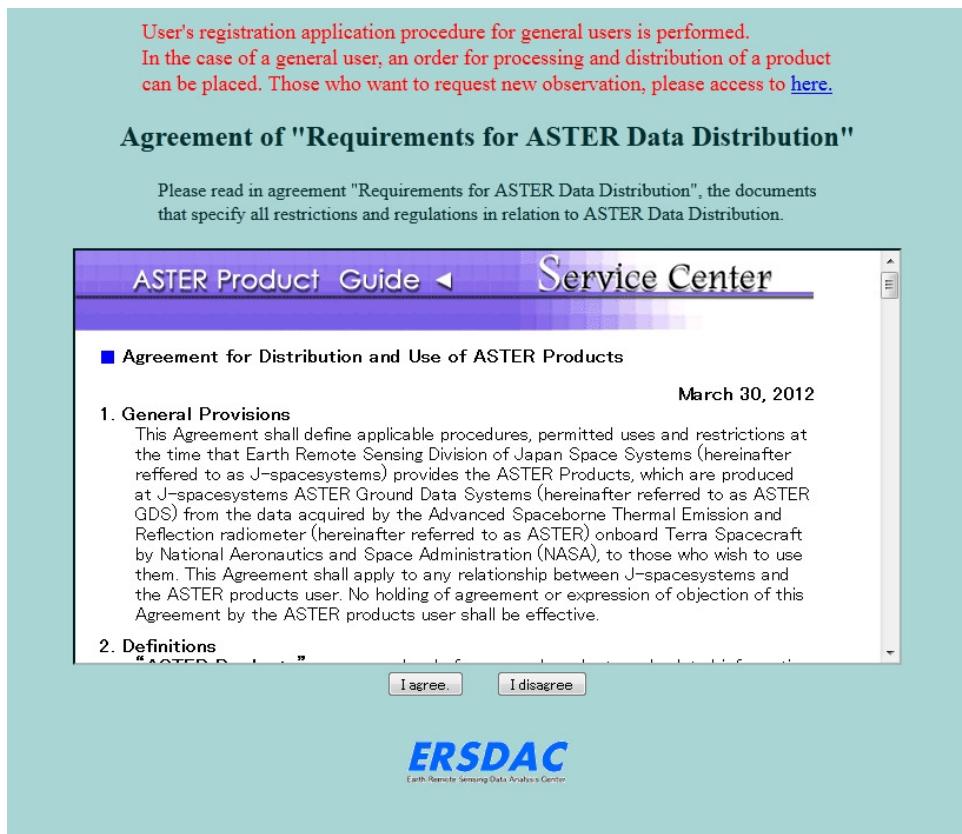
The screenshot shows the homepage of the ASTER/PALSAR Unified Search site. The main content area is titled "You can search and order the ASTER images and the PALSAR images by common search conditions." It features a "Search/Order" button. Below the button, text states: "In order to view the PALSAR mosaic image in the background of the map, you need to log in to ASTER GDS or PALSAR GDS before pushing "Searching/Order" button. You can log in from the following." It lists "ASTER GDS : [Login](#) [User Registration](#)" and "PALSAR GDS : [Login](#) [User Registration](#)". The "User Registration" link for ASTER GDS is circled in red. The sidebar on the left contains links for ASTER Link (ASTER Science, ASTER GDS, ASTER GDEM, ASTER Data Distribution, ASTER GDS User Guide), PALSAR Link (PALSAR GDS, PALSAR Data Distribution, PALSAR GDS User Guide), Others (Japan Space Systems, Earth Remote Sensing Division), and Documents (User Manual). The footer includes the Japan Space Systems logo and the text "Copyright © 2012 Japan Space Systems. All Rights Reserved."

Fig. 2.2.1-1 Click [User Registration] of ASTER GDS

When the application form for ASTER GDS User Registration appears on a new tab, apply for user registration following the instructions on the screen.

For details, see [User Registration] in top menu on the below URL.

<http://ims.aster.ersdac.jspacesystems.or.jp/ims/html/Help/HelpMenu.html>



**Fig. 2.2.1-2 ASTER GDS User Registration Application screen**

## 2.2.2. Apply for PALSAR User Registration

Click [User Registration] of PALSAR GDS on the top page of ASTER/PALSAR Unified Search site.

ASTER/PALSAR Unified Search

Contact Us | Japanese

**ASTER Link**

- ASTER Science
- ASTER GDS
- ASTER GDEM
- ASTER Data Distribution
- ASTER GDS User Guide

**PALSAR Link**

- PALSAR GDS
- PALSAR Data Distribution
- PALSAR GDS User Guide

**Others**

- Japan Space Systems
- Earth Remote Sensing Division

**Documents**

- User Manual

**Search/Order**

You can search and order the ASTER images and the PALSAR images by common search conditions.

In order to view the PALSAR mosaic image in the background of the map, you need to log in to ASTER GDS or PALSAR GDS before pushing "Searching/Order" button. You can log in from the following.

ASTER GDS : [Login](#) [User Registration](#)

PALSAR GDS : [Login](#) [User Registration](#)

**Information**

ASTER/PALSAR Unified Search site  
ASTER/PALSAR Unified Search site will be released in late July, 2012.

**Japan Space Systems**  
On March 30, 2012 (JST), Earth Remote Sensing Data Analysis Center (ERSDAC) merged with Institute for Unmanned Space Experiment Free Flyer (USEF) and Japan Resources Observation System and Space Utilization Organization (JAROS) to form a new organization called "Japan Space Systems (J-spacesystems)". The activities and services carried out by ERSDAC including the distribution of ASTER/PALSAR data are continued to be provided by the

**What's New**

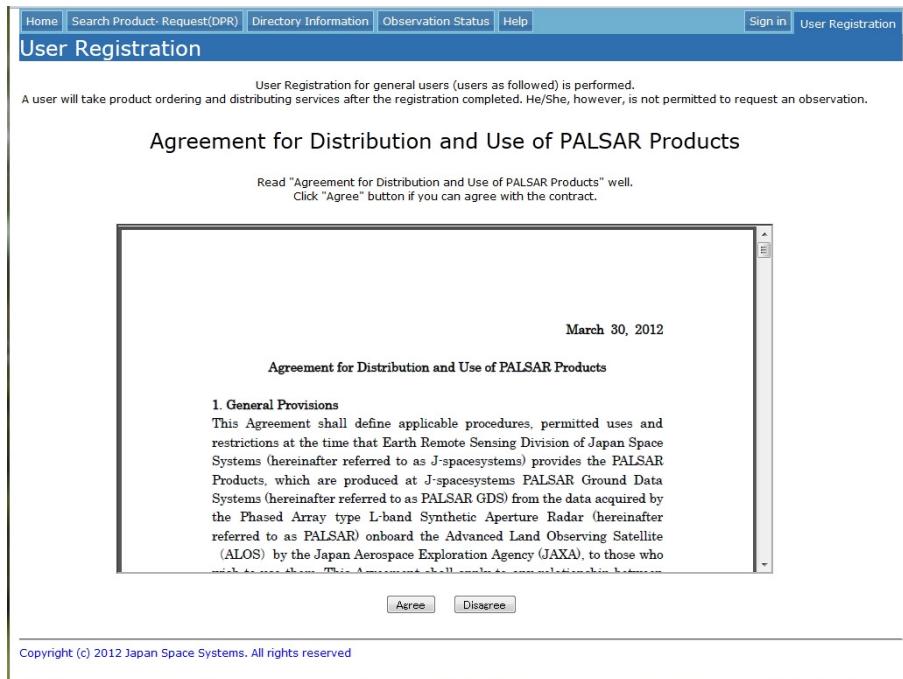
ASTER/PALSAR Unified Search site  
ASTER/PALSAR Unified Search site will be released in late July, 2012.

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**Fig. 2.2.2-1 Click [User Registration] of PALSAR GDS**

When the application form for PALSAR GDS User Registration appears on a new tab, apply for user registration following the instructions on the screen.  
For details, see the below URL.

[https://ims.palsar.ersdac.jspacesystems.or.jp/help/ims1\\_e/UserRegist\\_e/top\\_regist\\_e.html](https://ims.palsar.ersdac.jspacesystems.or.jp/help/ims1_e/UserRegist_e/top_regist_e.html)

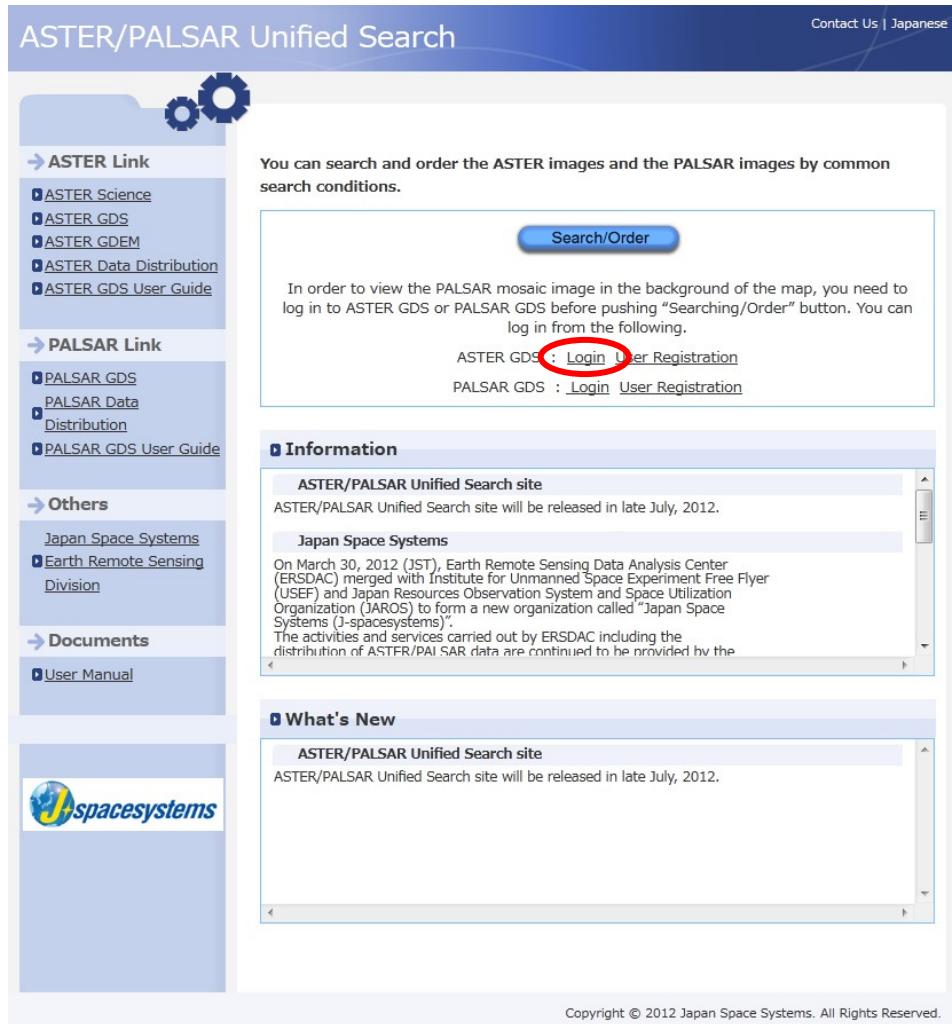


**Fig. 2.2.2-2 PALSAR GDS User Registration Application screen**

## 2.3. User Certification

### 2.3.1. Login as an ASTER User

Click [User Certification] of ASTER GDS on the top page of ASTER/PALSAR Unified Search site.



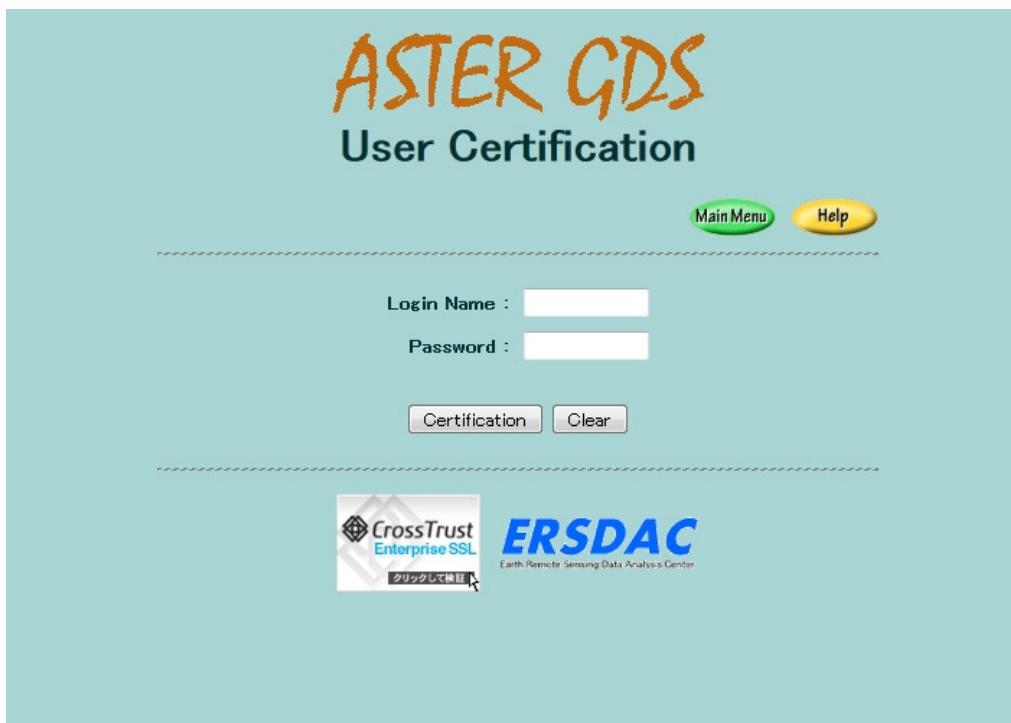
**Fig. 2.3.1-1 Click [Login] of ASTER GDS**

When ASTER GDS User Certification screen appears on a new tab, login following the instructions on the screen.

For details, see [User Certification] in top menu on the below URL.

<http://ims.aster.ersdac.jspacesystems.or.jp/ims/html/Help/HelpMenu.html>

User certification is required to order ASTER products. Also, user certification as an ASTER or PALSAR user is required to use display function of mosaic images on map.



**Fig. 2.3.1-2 ASTER GDS User Certification page**

### 2.3.2. Login as a PALSAR User

Click [User Certification] of PALSAR GDS on the top page of ASTER/PALSAR Unified Search site.

ASTER/PALSAR Unified Search

Contact Us | Japanese

**ASTER Link**

- ASTER Science
- ASTER GDS
- ASTER GDEM
- ASTER Data Distribution
- ASTER GDS User Guide

**PALSAR Link**

- PALSAR GDS
- PALSAR Data Distribution
- PALSAR GDS User Guide

**Others**

- Japan Space Systems
- Earth Remote Sensing Division

**Documents**

- User Manual

**Information**

You can search and order the ASTER images and the PALSAR images by common search conditions.

Search/Order

In order to view the PALSAR mosaic image in the background of the map, you need to log in to ASTER GDS or PALSAR GDS before pushing "Searching/Order" button. You can log in from the following.

ASTER GDS : [Login User Registration](#)

PALSAR GDS : [Login User Registration](#)

**What's New**

ASTER/PALSAR Unified Search site

ASTER/PALSAR Unified Search site will be released in late July, 2012.

Japan Space Systems

On March 30, 2012 (JST), Earth Remote Sensing Data Analysis Center (ERSDAC) merged with Institute for Unmanned Space Experiment Free Flyer (USEF) and Japan Resources Observation System and Space Utilization Organization (JAROS) to form a new organization called "Japan Space Systems (J-spacesystems)". The activities and services carried out by ERSDAC including the distribution of ASTER/PALSAR data are continued to be provided by the

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**Fig. 2.3.2-1 Click [Login] of PALSAR GDS**

When PALSAR GDS User Certification screen appears on a new tab, login following the instructions on the screen.

For details, see the below URL.

[https://ims.palsar.ersdac.jspacesystems.or.jp/help/ims1\\_e/UserCertify\\_e/top\\_cer\\_e.html](https://ims.palsar.ersdac.jspacesystems.or.jp/help/ims1_e/UserCertify_e/top_cer_e.html)

User certification is required to order PALSAR products. Also, user certification as an ASTER or PALSAR user is required to use display function of mosaic images on map.

Home | Search Product- Request(DPR) | Directory Information | Observation Status | Help | Sign in | User Registration

## User Certification

**NOTICE**

If you wish to utilize services limited for registered users as indicated below, please perform user certification here first.

- Update User Profile : Confirm User Profile, Update User Profile, Change Password
- DPR : DPR Submit/Cancel
- DAR : Requester's xAR Search, DAR Submit, DAR Modification

**Input Field**

Login Name :

Password :

Do you want to make a new account? [Start Here.](#)

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**Fig. 2.3.2-2 PALSAR GDS User Certification screen**

### 2.3 Display ASTER/PALSAR Unified Search Screen

To search ASTER and PLASAR products, confirm search result, and add the selected products to cart, click [Search/Order] button on the top page of ASTER/PALSAR Unified Search site.

ASTER/PALSAR Unified Search

Contact Us | Japanese

**ASTER Link**

- ASTER Science
- ASTER GDS
- ASTER GDEM
- ASTER Data Distribution
- ASTER GDS User Guide

**PALSAR Link**

- PALSAR GDS
- PALSAR Data Distribution
- PALSAR GDS User Guide

**Others**

- Japan Space Systems
- Earth Remote Sensing Division

**Documents**

- User Manual

**Information**

ASTER/PALSAR Unified Search site

In order to view the PALSAR mosaic image in the background of the map, you need to log in to ASTER GDS or PALSAR GDS before pushing "Searching/Order" button. You can log in from the following.

ASTER GDS : [Login](#) [User Registration](#)

PALSAR GDS : [Login](#) [User Registration](#)

**What's New**

ASTER/PALSAR Unified Search site

ASTER/PALSAR Unified Search site will be released in late July, 2012.

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**Fig. 2.4-1 Click [Search/Order] button**

ASTER/PALSAR Product Unified Search page appears to search and order products. Outline of this page is described below.

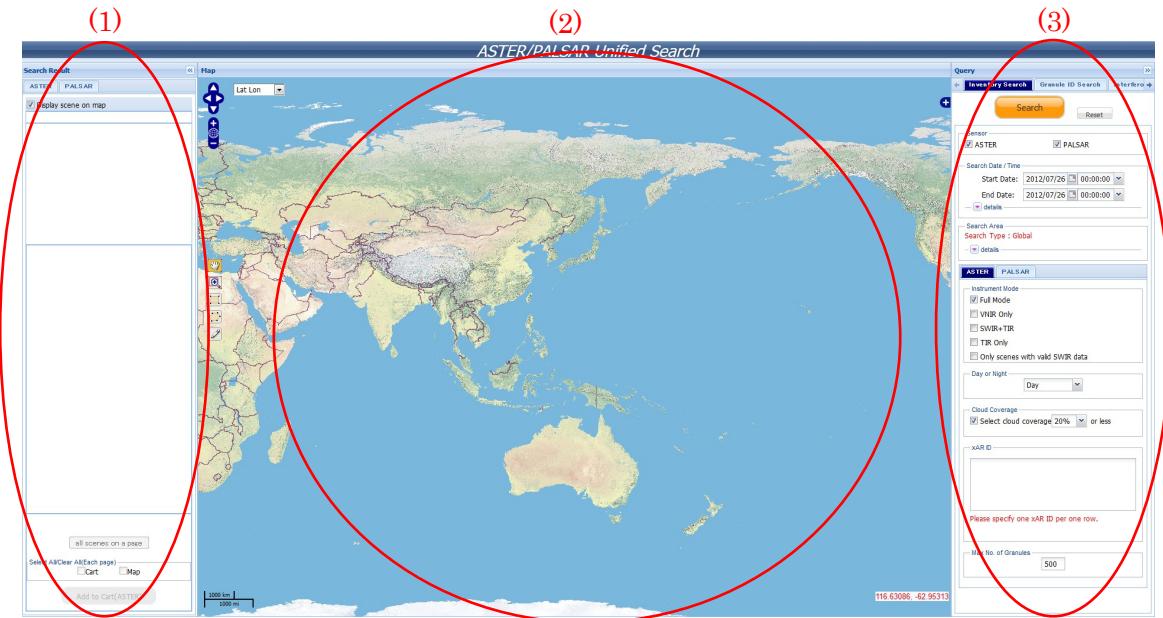


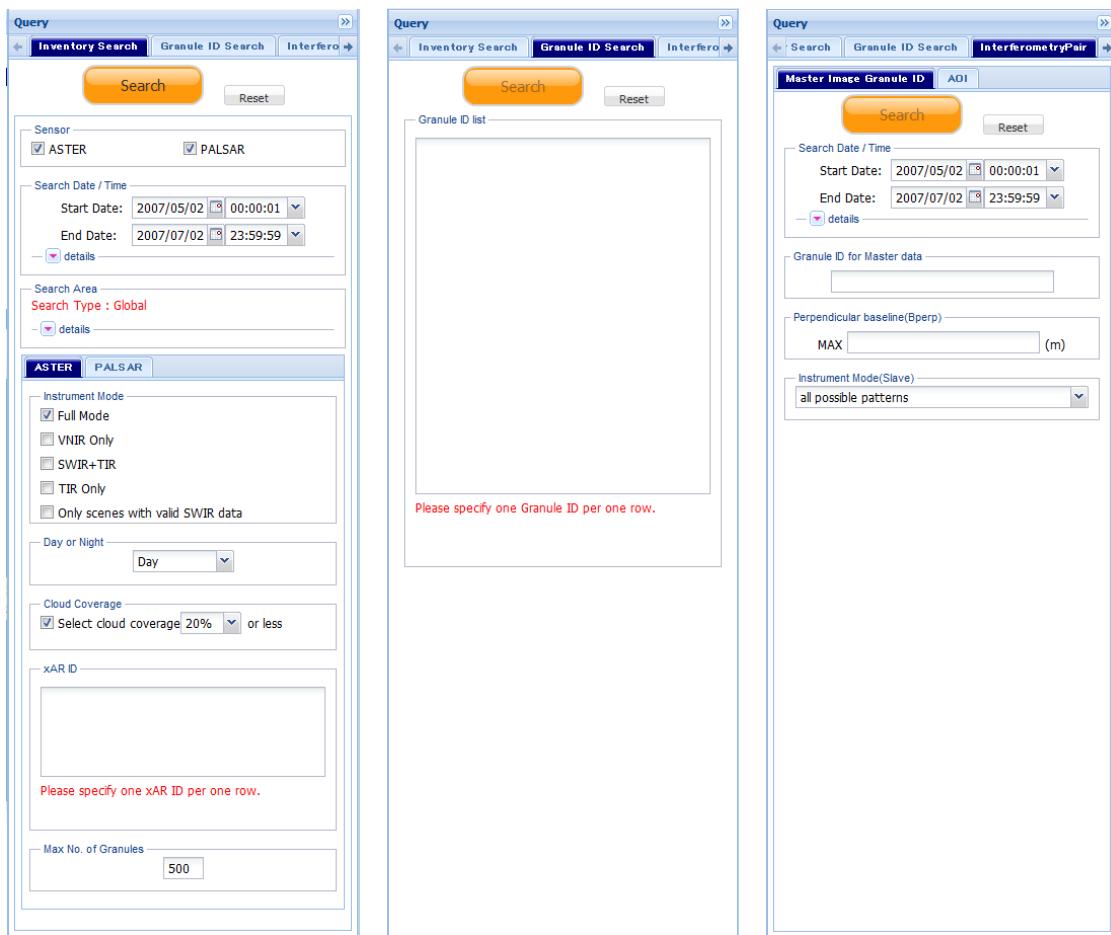
Fig. 2.4-2 ASTER/PALSAR unified search screen

Table 2.4-1 Contents of ASTER/PALSAR Unified Search screen

No.	Contents	Description
(1)	Field to show search result	Search result is displayed. button switches display or non-display
(2)	Map area	Map is displayed
(3)	Field to input search conditions	Search conditions are set. button switches display or non-display

## 2.5. Search Data Products

Start search for ASTER and PALSAR data products on the unified search site. For switching search method, use the tab **Inventory Search** **Granule ID Search** **Interfero** on top of the field to input search conditions.



**Fig. 2.5-1 Inventory Search tab, Granule ID Search tab, and Interferometry Pair Search tab from the left**

Each search method is explained below.

### 2.5.1 Perform Inventory Search

Select [Inventory Search] tab in the field to input search conditions. Inventory Search tab consists of 3 sections; the first section is for common search conditions, the second for ASTER-specific search conditions, and the third for PALSAR-specific search conditions.

(1) **Search** (2) **Reset**

**Sensor (3)**  
 ASTER  PALSAR

**Search Date / Time (4)**  
 Start Date: 2012/07/03 10:08:32  
 End Date: 2012/07/03 10:08:32  
 -  details

**Search Area (5)**  
 Search Type : Global  
 -  details

**Fig. 2.5.1-1 Input field of common search conditions**

**ASTER PALSAR (6)**

**Instrument Mode (12)**  
 FBS  
 Off-nadir Angle: Any  
 Polarity: Any

**FBD (13)**  
 FBD  
 Off-nadir Angle: Any  
 Polarity: Any

**SCN (14)**  
 SCN  
 Cycle: Any  
 No. of Scans: Any  
 Polarity: Any

**PLR (15)**  
 PLR  
 Off-nadir Angle: Any

**Orbit Data Type (16)**  
 Any

**Ascending/Descending (17)**  
 Any

**Path No (18)**  
 -  -

**Row No (19)**  
 -  -

**Max No. of Granules (20)**  
 500

**ASTER PALSAR (6)**

**Instrument Mode (7)**  
 Full Mode  
 VNIR Only  
 SWIR+TIR  
 TIR Only  
 Only scenes with valid SWIR data

**Day or Night (8)**  
 Day

**Cloud Coverage (9)**  
 Select cloud coverage 20% or less

**xAR ID (10)**  
 Please specify one xAR ID per one row.

**Max No. of Granules (11)**  
 500

**Fig. 2.5.1-2 Input field of ASTER-specific search conditions (left),**

### Input field of PALSAR-specific search conditions (right)

**Table 2.5.1-1 Contents of Inventory Search tab**

No.	Contents	Description
(1)	[Search] button	Search is performed under the specified search conditions.
(2)	[Reset] button	Search conditions return to default.
(3)	Sensor	Sensor type is specified
(4)	Search Date/Time	Search period is set button shows the field to set detailed conditions
(5)	Search Area	button shows the field to specify area by coordinates.
(6)	ASTER/PALSAR tab	Display the field of ASTER and PALSAR-specific search conditions are switched.
(7)	ASTER: Instrument mode	ASTER observation mode is specified.
(8)	ASTER: Day or Night	Day-time or night-time observation for ASTER is specified
(9)	ASTER: Cloud Coverage	Cloud amount for ASTER is specified
(10)	ASTER: xAR ID	ASTER's xAR ID is specified
(11)	ASTER: Max No. of Granules	Maximum number of ASTER scenes to be retrieved is set
(12)	PALSAR: FBS	Conditions for PALSAR Fine Beam Single Polarisation (FBS) observation mode are specified
(13)	PALSAR: FBD	Conditions for PALSAR Fine Beam Dual Polarisation (FBD) observation mode are specified
(14)	PALSAR: SCN	Conditions for PALSAR ScanSAR (SCN) observation mode are specified.
(15)	PALSAR: PLR	Condition for PALSAR Full Polinetry (PLR) observation mode is specified.
(16)	PALSAR: Orbit Data Type	PALSAR's orbit data type is specified.

(17)	PALSAR: Ascending/Descending	Orbital direction of PALSAR is specified
(18)	PALSAR: Path No.	PALSAR's path number is specified.
(19)	PALSAR: Row No.	PALSAR's row number is specified.
(20)	PALSAR: Max No. of Granules	Maximum number of PALSAR scenes to be retrieved is set

After setting each search condition and clicking [Search] button, data search in the specified conditions is performed. If both ASTER and PALSAR are selected in [Sensor] section, search for both ASTER and PALSAR data products is performed.

How to specify each search condition is explained below.

#### 2.5.1.1 Set ASTER/PALSAR Common Search Conditions

Set the search conditions commonly used for ASTER and PALSAR.

Fig. 2.5.1.1-1 Input field of ASTER/PALSAR common search conditions

##### <Sensor>

Specify both ASTER and PALSAR or select one as target sensor.

##### <Search Date/Time>

Set the search period. Choose dates from calendar or directly enter the dates. When clicking [details] button, the field to set more details appears.

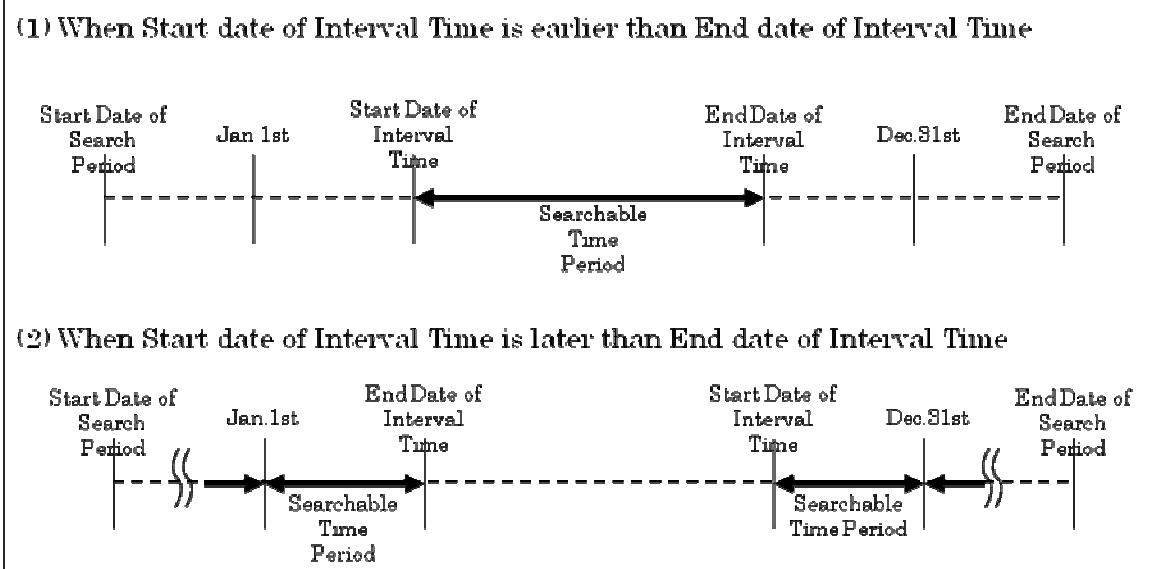
**Fig. 2.5.1.1-2 Click [details]**

**Fig. 2.5.1.1-3 Input field of more detailed search period**

When [All] is selected, period is not reflected to search conditions.

When [Continuous Time Range] is selected, Start Date and End Date are required.

When [Annually Repeating Time Period] is checked, the specified interval of time (the same interval of time for each year during the specified period) is searched. Start date and end date for this interval of time period are required to input in the form of MM/DD. The relation between interval time's start/end date and search period's start/end date is described below.



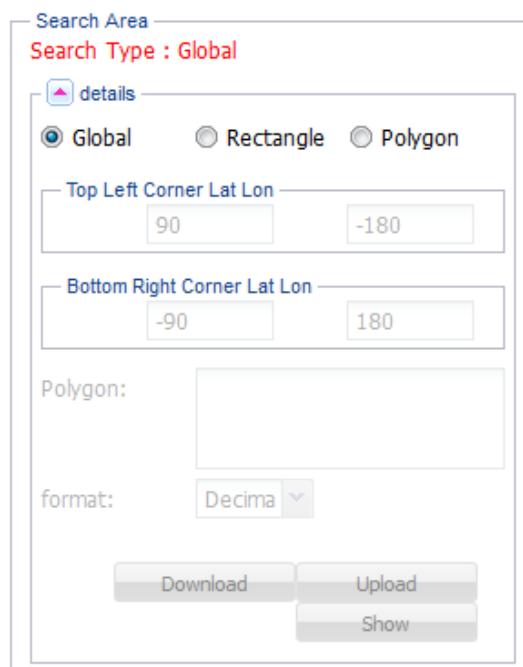
**Fig. 2.5.1.1-4 Relation between interval of time and search period**

#### <Search Area>

A search area can generally be specified in rectangle or polygon on the map by mouse

operation. For details on how to specify a search area on map see [3.5 Specify Search Area in Rectangle] and [3.6 Specify Search Area in Polygon].

In addition to mouse operation, a search area can be specified by coordinates values. Click [details] button to display the field of specifying search area, and select one from [Global], [Rectangle], and [polygon].



**Fig. 2.5.1.1-5 Input filed of Specify search area**

#### **(a) Global Search Type**

Search is performed globally.

#### **(b) Rectangle Search Type**

Enter latitudes and longitudes of the rectangular search area in [Top Left Corner Lat Lon] and [Bottom Right Corner Lat Lon]. [Decimal Degree] or [Degree Min Sec] is selectable as input format.

Click [Show] button to display the specified area on the map.

#### **(c) Polygon Search Type**

Input latitude and longitude of each vertex of the polygon in [Polygon] field. Enter a

vertex per line, in the order of [latitude, longitude]. [Decimal Degree] or [Degree Min Sec] is selectable.

Information of the specified polygon can be downloaded and uploaded in KMZ format by [Download] and [Upload] buttons.

The specified polygon can be displayed on the map by [Show] button.

### 2.5.1.2 Set Specific Search Conditions for ASTER

Select [ASTER] tab to set specific search conditions for ASTER. Only when [ASTER] is checked in [Sensor] field, it is possible to set search conditions on [ASTER] tab.

The screenshot shows a search interface for the ASTER sensor. At the top, there are two tabs: 'ASTER' (which is selected and highlighted in blue) and 'PALSAR'. Below the tabs are several search parameters:

- Instrument Mode:** A group of checkboxes:
  - Full Mode
  - VNIR Only
  - SWIR+TIR
  - TIR Only
  - Only scenes with valid SWIR data
- Day or Night:** A dropdown menu set to 'Day'.
- Cloud Coverage:** A checkbox labeled 'Select cloud coverage' followed by a dropdown menu set to '20%' and the text 'or less'.
- xAR ID:** A text input field with a placeholder message: 'Please specify one xAR ID per one row.'.
- Max No. of Granules:** An input field containing the value '500'.

**Fig. 2.5.1.2-1 Input field of ASTER-specific search conditions**

#### <Instrument Mode>

Select observation mode from [Full Mode], [VNIR Only], [SWIR+TIR], [TIR Only], and [Only scenes with valid SWIR data]. More than one observation mode must be selected.

ASTER SWIR sensor has not been acquiring valid data since April 2007. When [Only scenes with valid SWIR data] is checked, a search is performed in the condition of [Full Mode] and [SWIR+TIR], and only the scenes observed before April 1, 2007 are retrieved.

For detail of each observation mode, see the below URL.

[http://www.science.aster.ersdac.jspacesystems.or.jp/en/documnts/users\\_guide/part1/07\\_0](http://www.science.aster.ersdac.jspacesystems.or.jp/en/documnts/users_guide/part1/07_0)

## [1.html](#)

### **<Day or Night>**

Specify day-time and night-time observation. [Day], [Night] and [Both] are selectable.

### **<Cloud Coverage>**

Set cloud amount. Check [Select cloud coverage] and select cloud percentage from the pull-down menu. Specified percentage is for the whole scene, and scenes with cloud coverage of the specified percentage or less are retrieved. If [Select cloud coverage] is not checked, cloud coverage is not reflected to the search condition.

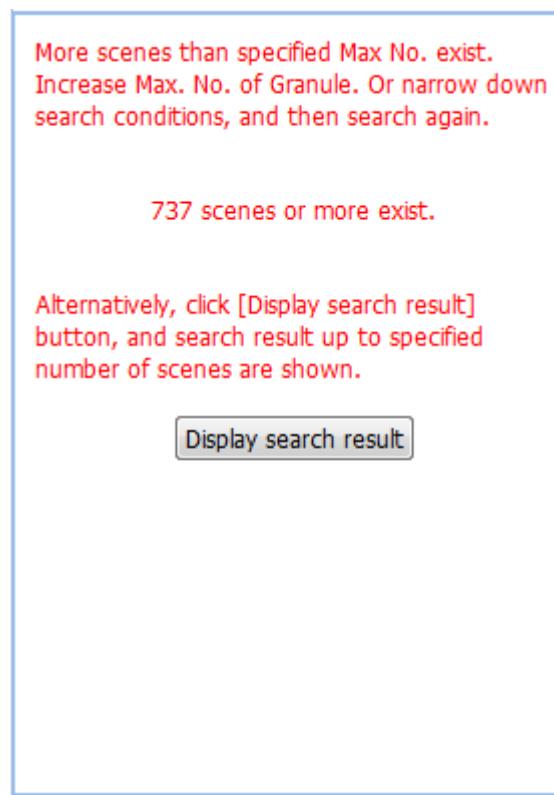
### **<xAR ID>**

Specify ASTER xAR ID. The scenes acquired with the specified xAR ID are retrieved. Input a xAR ID per line to search plural IDs.

### **<Max. No. of Granules>**

Specify the maximum number of granules to be retrieved for ASTER only. This number can be specified up to 500 and this is a mandatory search condition.

If the number of scenes shown in search result is over the specified maximum number of granules, narrow the search conditions such as area or period, and search again. Or, click [Display search result] on search result window. When clicking this button, the search result lists only scenes up to the specified number in order of oldness.



**Fig. 2.5.1.2-2 Case search result has more scenes than  
the specified Max. No. of granules**

### **2.5.1.3 Set Specific Search Conditions for PALSAR**

Select [PALSAR] tab to set specific search conditions for PALSAR. Only when [PALSAR] is checked in [Sensor] field, it is possible set search conditions on [PALSAR] tab.

The screenshot shows a software interface for search conditions. At the top, there are tabs for 'ASTER' and 'PALSAR', with 'PALSAR' being the active tab. Below the tabs, there are several sections with dropdown menus and checkboxes:

- Instrument Mode:**
  - FBS
    - Off-nadir Angle: Any
    - Polarity: Any
  - FBD
    - Off-nadir Angle: Any
    - Polarity: Any
  - SCN
    - Cycle: Any
    - No. of Scans: Any
    - Polarity: Any
  - PLR
    - Off-nadir Angle: Any
- Orbit Data Type:**
  - Any
- Ascending/Descending:**
  - Any
- Path No.:**
  - Path No. range input fields (empty)
- Row No.:**
  - Row No. range input fields (empty)
- Max No. of Granules:**
  - 500

**Fig. 2.5.1.3-1 Input field of PALSAR-specific search conditions**

#### <Instrument Mode>

Specify observation mode. [Fine Beam Single polarization (FBS)], [Fine Beam Dual polarization (FBD)], [Scan SAR (SCN)], and [Full polarization (PLR)] are selectable. More than one observation mode must be selected. Also, Off-nadir Angle, Polarity (FBS and FBD only), Cycle (SCN only) and No. of Scans (SCN only) can be specified for each observation mode.

#### <Orbit Data Type>

Select one orbit data type from [Any], [High Accuracy Orbit Data], [Determined Value],

[GPSR], and [Estimated Orbit]. (If [Any] is selected, orbit data type is not reflected to search conditions)

**<Ascending/Descending>**

Select orbital direction. Select one from [Any], [Ascending], and [Descending]. (If [Any] is selected, orbital direction is not reflected to search conditions)

**<Path No.>**

Specify path number. Input positive integer number between 1 and 671 (If this field is blank, path number is not reflected to search conditions).

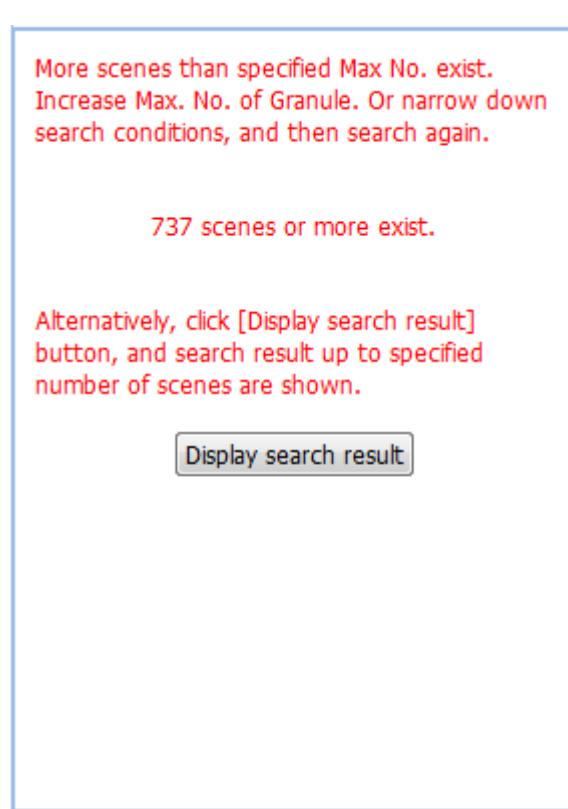
**<Row No.>**

Specify row number. Input positive integer number between 1 and 720 (If this field is blank, row number is not reflected to search conditions).

**<Max. No. of Granules>**

Specify the maximum number of scenes to be retrieved for PALSAR only. This number can be specified up to 500 and this is a mandatory search condition.

If the number of scenes shown in search result is over the specified max. number of granules, narrow the search conditions such as area or period, and search again. Or, click [Display search result] on search result window. When clicking this button, the search result lists only scenes up to the specified number in order of oldness.



**Fig. 2.5.1.3-2 Case search result has more scenes than the specified Max. No. of granules**

#### **2.5.1.4 Start Search**

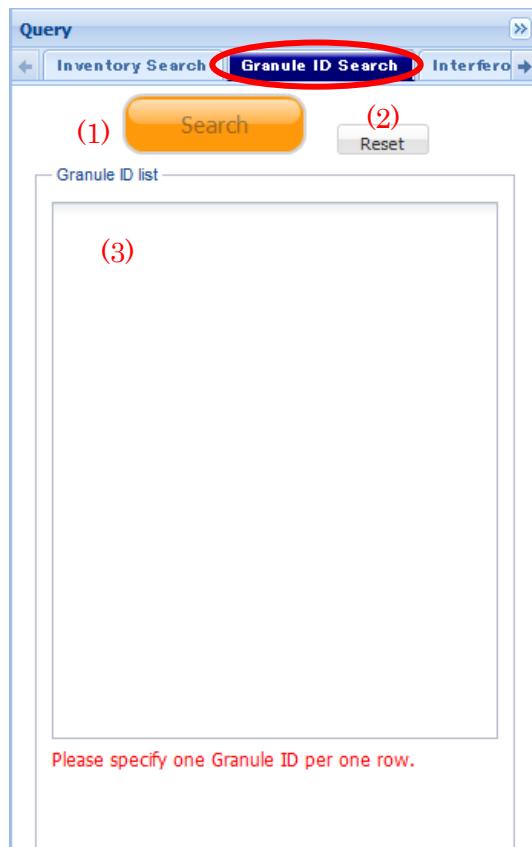
After specifying each search condition, click [Search] button to start a search under the specified conditions. Search result is shown on the Search Result window from which order can be placed. For details on the Search Result window, see [2.6 Confirm Data Product Search Result].

#### **2.5.1.5 Reset Search Conditions**

Click [Reset] button and all the specified search conditions go back to the default in Inventory search.

### **2.5.2 Search by Granule ID**

Select [Granule ID Search] tab on ASTER/PALSAR Unified Search site. The details of [Granule ID Search] window are described below.



**Fig.2.5.2-1 Granule ID Search tab**

**Table 2.5.2-1 Contents of Granule ID Search tab**

No.	Contents	Description
(1)	[Search] button	Search with the specified granule ID is performed
(2)	[Reset] button	All the values input in the granule ID list field are deleted and made blank
(3)	granule ID list	Granule ID for search target is input

### 2.5.2.1 Specify Granule ID

Enter granule ID to search in the Granule ID list field. Input a granule ID per line when specifying more than one ID. ASTER's granule ID and PALSAR's can be specified and searched simultaneously.

### 2.5.2.2 Perform Search

After entering granule ID and click [Search] button to search the scene with the specified

granule ID. In case of ASTER, L1A scene is retrieved, even if the granule ID of other level product is specified. Search result is shown on the Search Result window where order can be placed. For details on the Search Result window, see [2.6 Confirm Data Product Search Result].

#### 2.5.2.3 Reset Search Conditions

Click [Reset] button, and all granule IDs entered in the granule ID list are deleted with this field blank.

### 2.5.3 Search Interferometry Pair

Select [Interferometry Pair] tab on ASTER/PALSAR Unified Search site.

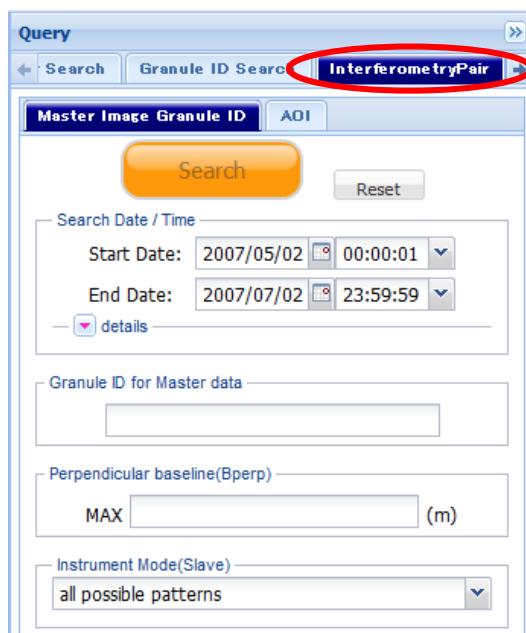
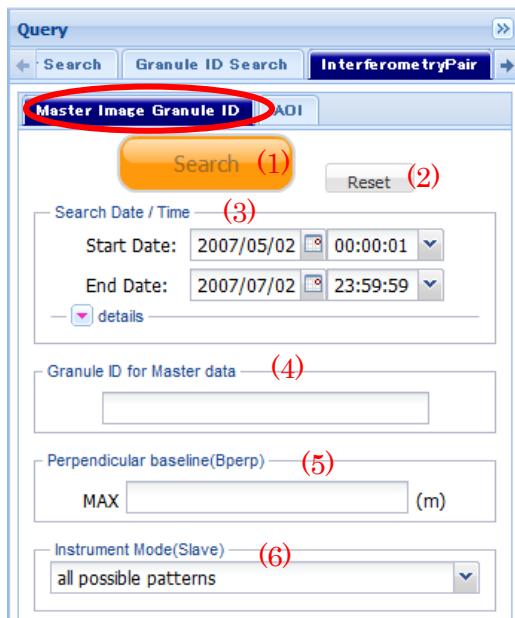


Fig. 2.5.3-1 Interferometry Search tab

Two types of interferometry pair search are available; one is [Master Image Granule ID] and the other is [AOI]. Click each tab to switch the method.

#### 2.5.3.1 Search Interferometry pair by Master Image Granule ID

Select [Master Image Granule ID] tab.



**Fig. 2.5.3.1-1 Master Image Granule ID search tab**

**Table 2.5.3.1-1 Contents of Master Image Granule ID search tab**

No.	Contents	Description
(1)	[Search] button	Search is performed under the specified search conditions.
(2)	[Reset] button	Search conditions return to the default.
(3)	Search Date/Time	Search period is set checkbox button shows the field to set detailed conditions
(4)	Granule ID for Master data	Granule ID for master image is specified
(5)	Perpendicular baseline	Maximum value of perpendicular base line is specified
(6)	Instrument Mode (Slave)	Condition on observation pattern is selected

#### <Search Period>

See <Search Date/Time> of [2.5.1.1 Set ASTER/PALSAR Common Search Conditions] for how to specify.

#### <Granule ID for Master data>

Enter granule ID of the product to be used as master image. Data acquired in ScanSAR mode cannot be used as master image, as this observation mode is out of Interferometry Pair search.

#### **< Perpedicular baseline (Bperp)>**

Specify the maximum value (absolute value) of the perpedicular baseline (Bperp) between the master image and slave image to be searched. Slave image with shorter perpedicular baseline than the specified value is retrieved.

#### **<Instrument Mode (Slave)>**

Set the conditions on observation patters, which are the types of PALSAR's observation uniquely determined by combination of observation mode (FBS, FBD, PLR, SCN), number of scans (3, 4 and 5), and cycle (long, short). However, number of scans and cycle are not reflected to search conditions, as ScanSAR observation mode is out of Interferometry Pair search.

The following conditions are required for slave image to be retrieved by Interferometry Pair search.

- To have the same off-nadir angle as that of master image
- To have at least the same one polarization as the master image

Even if the observation pattern of slave image does not match that of master image, the combination of observation pattern with the common polarization exists. Therefore, either of the following options is required to specify from the drop-down menu as a search condition of slave image's observation pattern.

- Same as the master: only the same observation pattern is targeted for search
- All possible patterns: other observation patterns than master image's are targeted as well.

#### **2.5.3.2 Search Interferometry Pair by Specifying AOI**

Select [AOI] tab.

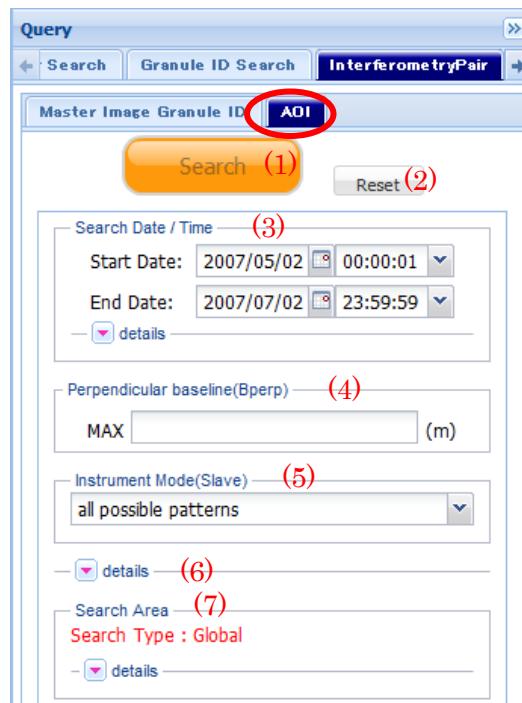


Fig. 2.5.3.2-1 AOI tab

Table 2.5.3.2-1 Contents of AOI tab

No.	Contents	Description
(1)	[Search] button	Search is performed under the specified search conditions.
(2)	[Reset] button	Search conditions return to the default.
(3)	Search Date / Time	Search period is set button shows the field to set detailed conditions
(4)	Perpedicular baseline	Maximum value of perpendicular base line is specified
(5)	Instrument Mode (Slave)	Condition on observation pattern is selected
(6)	details	button shows the field to set detailed conditions
(7)	Search Area	button shows the field to specify search area

<Search Period>

See <Search Date/Time> of [2.5.1.1 Set ASTER/PALSAR Common Search Conditions]

#### **< Perpedicular baseline (Bperp)>**

See < Perpedicular baseline > of [2.5.3.1 Search Interferometry Pair by Master Image Granule ID] for how to specify.

#### **<Instrument Mode (Slave)>**

See < Instrument Mode (Slave) > of [2.5.3.1 Search Interferometry Pair by Master Image Granule ID] for how to specify.

#### **<Set Detailed Search Conditions by details Button>**

See [2.5.1.3 Specify Specific Search Conditions for PALSAR] for how to specify.

#### **<Search Area>**

See [3.5 Specify Search Area in Rectangle] and [3.6 Specify Search Area in Polygon] for how to specify a search area on the map. Also, see <Search Area> of [2.5.1.1 Specify Search ASTER/PALSAR Common Search Conditions].

### **2.5.3.3 Perform Search**

After specifying search conditions, click [Search] button to perform a search in the specified conditions both in cases of [Master Image Granule ID] and [AOI]. Search result appears on the Search Result field where order procedures can be started. See [2.6 Confirm Data Product Search Result] for operations on the Search Result field. However, only in case of [AOI] search, scenes retrieved as search result cannot be put into cart. Instead, the search result can be downloaded as a list. For how to download this list, see [2.6.11 Download AOI Search Result]

### **2.5.3.4 Reset Search Conditions**

Click [Reset] button to return all the search conditions to the default setting.

## **2.6. Confirm Data Product Search Result**

When a search is performed by one of the above mentioned methods, search result to match the specified search conditions appears as a list in the Search Result field on the left of ASTER/PALSAR Unified Search site (each scene coverage is displayed on the map). Search results for ASTER and PALSAR appear on different tab respectively. Display of ASTER or PALSAR search result can be switched by tab.

Structure of Search Result field is described below.

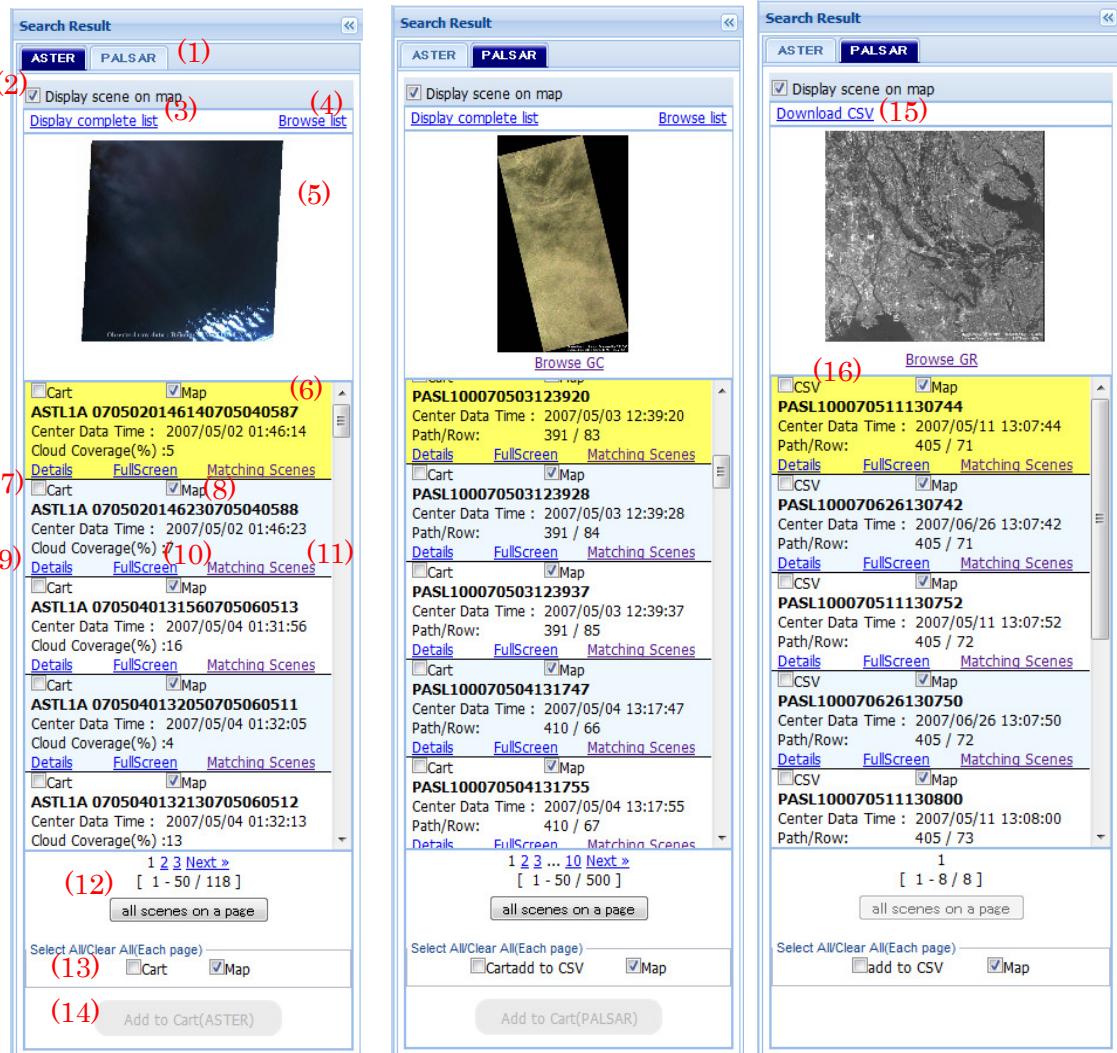


Fig. 2.6-1 Left: ASTER Search Result tab, Middle: PALSAR Search Result tab, Right: AOI Search Result tab

Table 2.6-1 Contents of Search Result tab

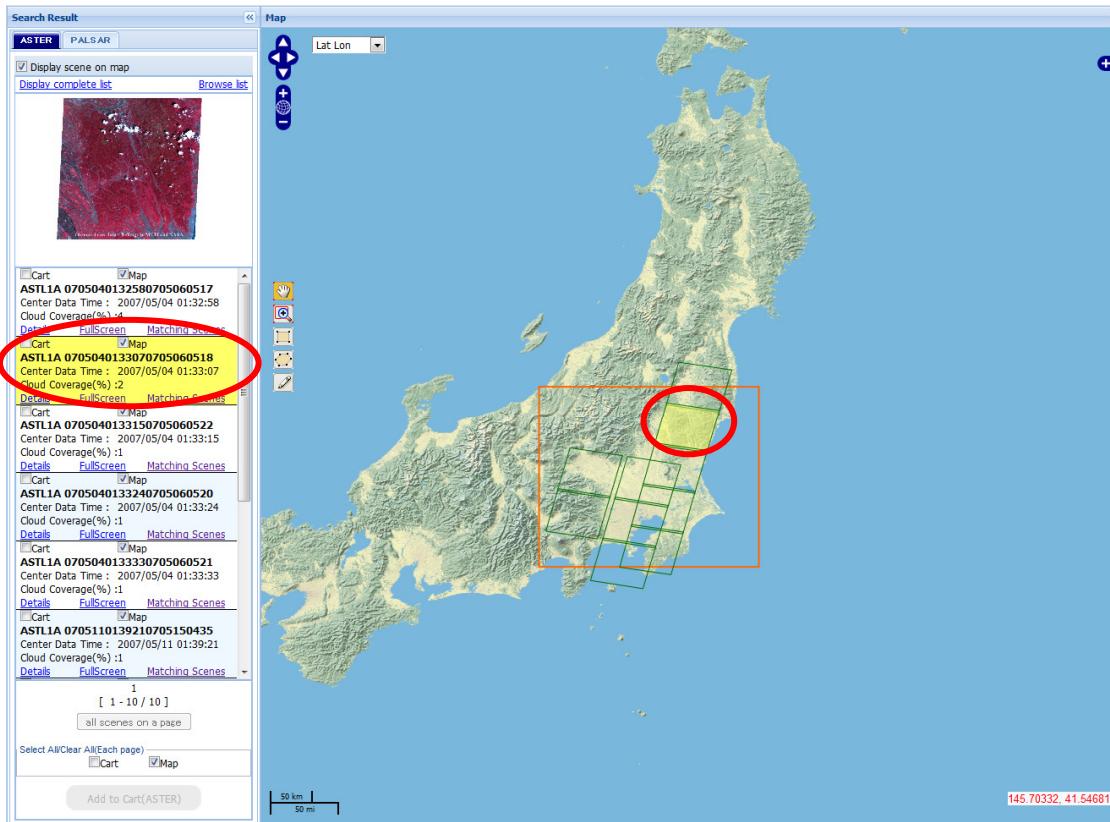
No.	Contents	Description
(1)	ASTER/PALSAR tab	Display of search result for ASTER and PALSAR is switched
(2)	display scene on map	ASTER and PALSAR scenes in search result are displayed on map or non-displayed
(3)	Display complete list	Complete list of product search result

		appears on a new tab.
(4)	Browse list	Browse list window appears on a new tab
(5)	Browse Image	Browse image for the selected scene is displayed. In case browse image doesn't exist, a message of [No Browse Image] appears. Enlarged browse image is displayed on a new window.
(6)	Product Information	Product Information of each scene retrieved as search result is shown.
(7)	Cart	Scene to order is selected. The scene whose Cart is checked can be added to cart by clicking [Add to Cart] button at the bottom.
(8)	Map	Display or non-display of each scene on map is switched
(9)	Details	Detailed display or simple display of each scene's product information is switched
(10)	Full Screen	More detailed product information on the selected scene is displayed
(11)	Matching Scenes	A new window to search scenes covering the same area as the selected scene
(12)	Paging	Displayed page of search result list is switched by clicking [<<Previous], [Next>>], or page number. A page has search result of 50 scenes. If search result has more than 50 scenes, its list is divided and every 50 scenes are listed on a page. All scenes are displayed on a page when clicking [all scenes on a page]
(13)	Select All/Clear All (Each page)	[Cart] All scenes listed on the displayed

		<p>page are put into cart. This function can switch on and off selecting all the scenes.</p> <p>[Map]</p> <p>All scenes on the displayed page are shown on map. This function can switch on and off selecting all the scenes.</p>
(14)	Add to Cart	All the scenes selected for [Cart] are put into cart.
(15)	Download CSV	Search result of all the scenes checked for [CSV] is downloaded in CSV format.
(16)	CSV	Scene to download its search result is selected. The scenes checked for [CSV] can be downloaded by clicking [Download CSV] described in (15)

### 2.6.1. Select Scenes in Search Result

Click the field of each scene in search result list, and background color changes to yellow and its corresponding scene frame on map is highlighted in yellow. Or, click the coverage frame of a scene on map, and field color of the corresponding scene in the Search Result is highlighted in yellow.



**Fig. 2.6.1-2 Highlight selected scene**

## 2.6.2. Display Browse Image

When a scene which has browse image is selected, its browse image is displayed on top of Search Result list. When the browse image is clicked, the browse image in the original size shows up on a new window.

ASTER search result shows the browse images of below sensors depending on observation mode.

**Table 2.6.2-1 ASTER Browse Image Types for display**

Observation Mode	Sensor
Full Mode	VNIR
VNIR Only	VNIR
SWIR + TIR	SWIR
TIR Only	TIR

There are 5 types PALSAR Browse images shown in the below table. For the L1.0 virtual scenes produced before early February 2010, Quick Look is shown as Browse Image, while Browse is shown for the L1.0 virtual scenes produced after early February, 2010. In case higher level products such as L1.5 are already produced, images such as Browse Ortho, Browse GC, and Browse GR are shown according to the products.

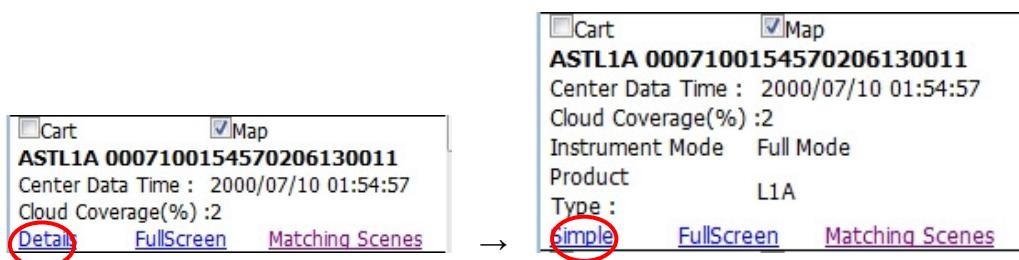
The type of displayed browse image is described under the browse image. The name of image is a link. Click a link, and the explanation of the browse image are shown.

**Table 2.6.2-2 PALSAR Browse Image Types**

Image type	Quality	Description
Quick Look	Low	Image for confirmation, which was produced in very simple method Projection: projected to orbit direction
Browse	Middle	Image for confirmation, which was produced in Browse-creating program Projection: projected to orbit direction
Browse Ortho	Middle	Image for confirmation, which was produced in the process of generating ortho-product Projection: projected on map (ortho)
Browse GC	High	Image for confirmation, which was produced in the process of generating Geo-Coded product Projection: projected on map
Browse GR	High	Image for confirmation, which was produced in the process of generating Geo-Reference product Projection: projected to orbit direction

### 2.6.3. Detailed Display and Simple Display of Search Result

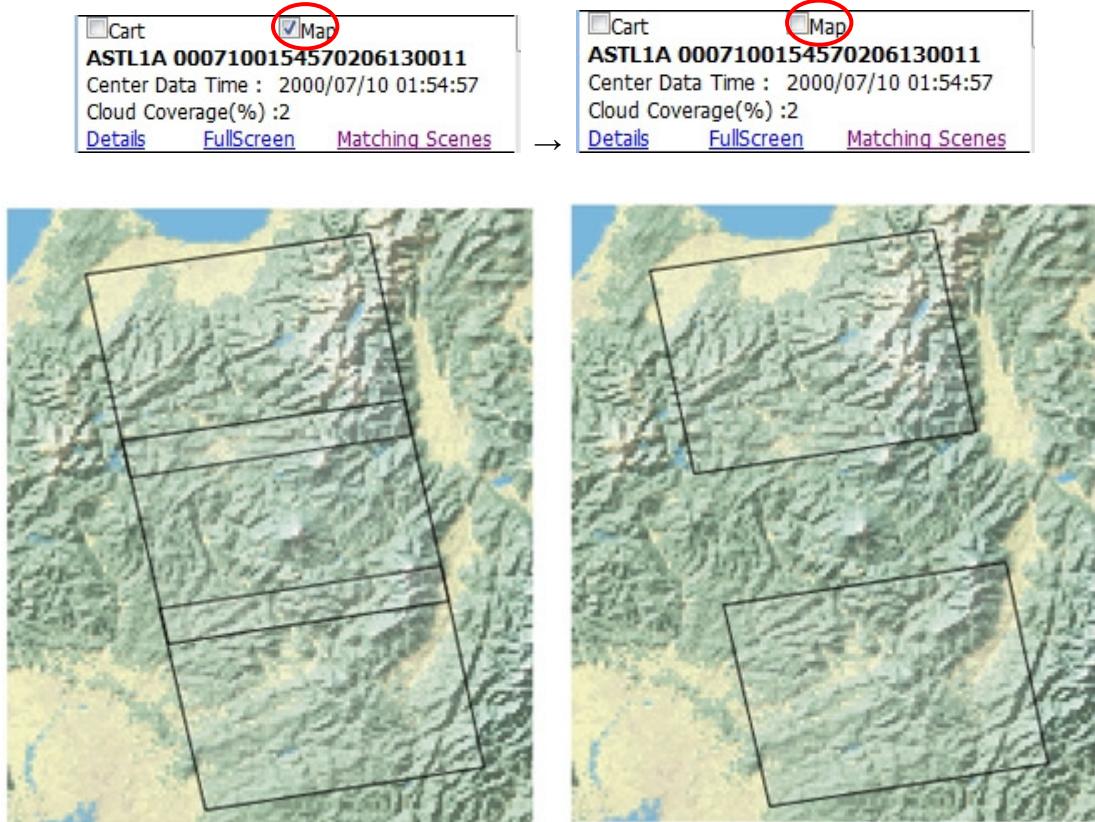
Click [Details] in the list of search result to switch to the detailed display of the product.  
Click [Simple] to go back to simple display.



**Fig. 2.6.3-1 Detailed Display/Simple Display**

#### 2.6.4. Display/Non-Display Scenes on Map

Check [Map] in search result list to display the scene on map, and uncheck to non-display.



**Fig. 2.6.4-1 Display and Non-display scene on map**

Switch on or off the check box of [Map] at the bottom of the search result list to display or non-display all the search result on the page.



**Fig. 2.6.4-2 Check box of [Map] at the bottom of search result list**

#### 2.6.5. Display Detailed Information on Data Product

Click [Full Screen] in the search result list.



**Fig. 2.6.5-1 Click [Full Screen]**

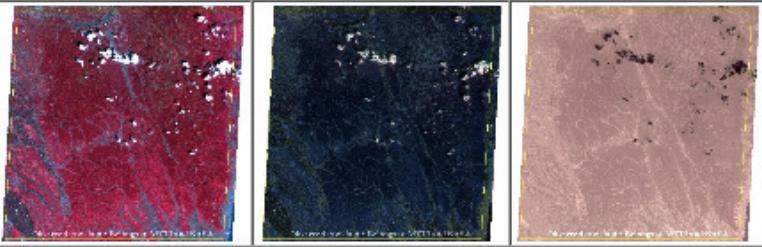
A new window appears to show the detailed information on the selected scene for view. Information shown on this window is different between ASTER and PALSAR.

The below example of Product Detailed Info window is for ASTER.

**Product Detailed Info**

(1) [Core meta data, Specific meta data](#)

Granule ID: ASTL1A 0705040133070705060518 Dataset ID: ASTL1A

(2) 

(3)  Show ortho areas

(4) **Scene Info**

Start Date/Time	2007/05/04 01:33:07	
Center Date/Time	2007/05/04 01:33:07	
End Date/Time	2007/05/04 01:33:07	
Latitude at the Scene Center	35.8095	
Longitude at the Scene Center	140.3763	
Northernmost Latitude	37.1355	
Southernmost Latitude	35.4832	
Easternmost Longitude	140.8002	
Westernmost Longitude	139.9245	
Scene Boundary	Latitude	Longitude
	37.1355	140.1151
	37.035	140.8002
	35.4832	140.6146
	35.382	139.9545
Scene Cloud Coverage (%)	1	
Quadrant Cloud Coverage (%)	WW 1: NE 5 SW 1: SE 1	

(5) **Observation Info**

Source	EOS_AM-1
Sensor	ASTER
Data Center	ASTER_GDS
Project	-
Instrument Mode	Full Mode
Offnadir Angle	-
Incident Angle	-
Orbit No.	-
Path No.	-
Row No.	-
Ascending/Descending	-
Day/Night	Day
STC	-
PRF	-
Unmapped Field	-
ASTER xAR ID	35125, 35119, 35111, 39705, 47217

(6) **Quality Info**

Missing Line No.	-
Percentage of Missing Line	-
Bit Error Rate	-
Doppler Ambiguity Confidence No.	-
Autofocus SNR	-
Quality	-

(7) **Process Info**

Original Granule ID	-
LO Granule ID	-
Product Date	Level 1A
No. of Pixels	-
No. of Lines	-
No. of Looks	-
STP ID	-
Product Version	-
Orbit Data	-
Product Generation Date/Time	-
Software	-
Software Version	-
pub_aggr_scenes_query_inventory_Parameter	-

(8) **Data Preservation Info**

Data Size	-
Bit Per Pixel	-

(9) **Other Info**

Dataset Comments	-		
Dataset Restrictions	-		
Additional Information	-		
Gain	VNIR Band	SWIR Band	TIR Band
	Band 01	Band 04	Band 10
	Band 02	Band 05	Band 11
	Band 3N	Band 06	Band 12
	Band 3S	Band 07	Band 13
		Band 08	Band 14
		Band 09	
Band3S Bad Pixels	Number of missing pixels or N/A	-	
	Number of damaged detectors or N/A	-	
	Number of elements of the list of bad pixels or N/A	-	

**Fig. 2.6.5-2 Product Detailed Information for ASTER**

**Table 2.6.5-1 Contents on ASTER Product Detailed Info window**

No.	Contents	Description
(1)	Link to Core meta data and Specific meta data	Core meta data and Specific meta data can be accessed. Display of each meta data is switched on tab.
(2)	Browse images	Browse images are displayed. When browse image doesn't exist, a message [No Browse Image] appears. Enlarged image shows up on a new window when clicking the image
(3)	Show ortho area	Expected scene area in case ortho product is generated is shown in yellow line [Box unchecked]   [Box checked]

		
(4)	Scene Info	Information on the scene is described
(5)	Observation Info	Information on observation is described
(6)	Quality Info	Information on quality is described
(7)	Process Info	Information on data processing is described.
(8)	Data Preservation Info	Information on data preservation is described.
(9)	Other Info	Other information is described.

The below example of Product Detailed Info is for PALSAR.

### Product Detailed Info

Granule ID: X0503055001-01_0032																																																							
(1)	 <p>Browse Quick Look data. Processed by ERSDAC Observed swaths. Beardo to METI and JAXA</p> <p><a href="#">Browse GR</a></p>																																																						
(2)	<table border="1"> <tr><td>Dataset ID</td><td>L0</td></tr> <tr><td>Granule ID</td><td>X0503055001-01_0032</td></tr> </table>	Dataset ID	L0	Granule ID	X0503055001-01_0032																																																		
Dataset ID	L0																																																						
Granule ID	X0503055001-01_0032																																																						
(3)	<table border="1"> <tr><th colspan="3">Scene Info</th></tr> <tr><td>Start Date/Time</td><td colspan="2">2007/06/10 01:06:37</td></tr> <tr><td>Center Date/Time</td><td colspan="2">2007/06/10 01:06:42</td></tr> <tr><td>End Date/Time</td><td colspan="2">2007/06/10 01:06:47</td></tr> <tr><td>Latitude at the Scene Center</td><td colspan="2">35.201</td></tr> <tr><td>Longitude at the Scene Center</td><td colspan="2">142.5201</td></tr> <tr><td>Nothernmost Latitude</td><td colspan="2">35.8203</td></tr> <tr><td>Southernmost Latitude</td><td colspan="2">34.6146</td></tr> <tr><td>Easternmost Longitude</td><td colspan="2">144.3256</td></tr> <tr><td>Westernmost Longitude</td><td colspan="2">140.3043</td></tr> <tr><th>Scene Boundary</th><th>Latitude</th><th>Longitude</th></tr> <tr><td></td><td>34.6146</td><td>144.1726</td></tr> <tr><td></td><td>35.2168</td><td>144.3256</td></tr> <tr><td></td><td>35.8203</td><td>140.428</td></tr> <tr><td></td><td>35.2184</td><td>140.3043</td></tr> <tr><th>Scene Cloud Coverage (%)</th><td colspan="2">-</td></tr> <tr><th>Quadrant Cloud Coverage (%)</th><td>NW -</td><td>NE -</td></tr> <tr><td></td><td>SW -</td><td>SE -</td></tr> </table>	Scene Info			Start Date/Time	2007/06/10 01:06:37		Center Date/Time	2007/06/10 01:06:42		End Date/Time	2007/06/10 01:06:47		Latitude at the Scene Center	35.201		Longitude at the Scene Center	142.5201		Nothernmost Latitude	35.8203		Southernmost Latitude	34.6146		Easternmost Longitude	144.3256		Westernmost Longitude	140.3043		Scene Boundary	Latitude	Longitude		34.6146	144.1726		35.2168	144.3256		35.8203	140.428		35.2184	140.3043	Scene Cloud Coverage (%)	-		Quadrant Cloud Coverage (%)	NW -	NE -		SW -	SE -
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(5)	<table border="1"> <tr><th colspan="2">Quality Info</th></tr> <tr><td>Missing Line No.</td><td>-</td></tr> <tr><td>Percentage of Missing Line</td><td>-</td></tr> <tr><td>Bit Error Rate</td><td>-</td></tr> <tr><td>Doppler Ambiguity Confidence No.</td><td>-</td></tr> <tr><td>Autofocus SNR</td><td>-</td></tr> <tr><td>Quality</td><td>-</td></tr> </table>	Quality Info		Missing Line No.	-	Percentage of Missing Line	-	Bit Error Rate	-	Doppler Ambiguity Confidence No.	-	Autofocus SNR	-	Quality	-																																								
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Fig. 2.6.5-3 PALSAR Product Detailed Info

Table 2.6.5-2 Contents of PALSAR Product Detailed Info window

No.	Contents	Description
(1)	Browse Image	Browse images are displayed. When browse image doesn't exist, a

		message [No Browse Image] appears. Enlarged image shows up on a new window when clicking the image
(2)	Dataset ID Granule ID	Dataset ID and Granule ID of the scene are described.
(3)	Scene Info	Information on the scene is described
(4)	Observation Info	Information on observation is described
(5)	Quality Info	Information on quality is described
(6)	Process Info	Information on data processing is described.
(7)	Data Preservation Info	Information on data preservation is described.

Click [Core meta data, Specific meta data] link, and [Show Core meta data, Specific meta data] screen appears.

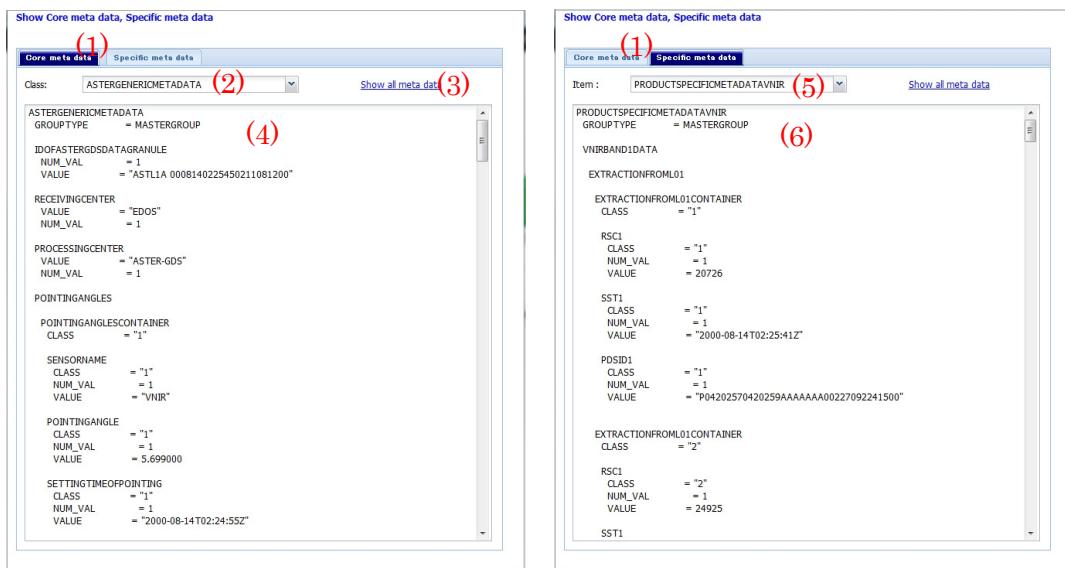


Fig. 2.6.5-4 Left: Core meta data tab, Right: Specific meta data tab

Table 2.6.5-3 Contents of Core meta data, Specific meta data screen

No.	Contents	Description
(1)	Core meta data/Specific meta data tabs	Information of core meta data and specific meta data is displayed by switching tab

(2)	Class name drop-down list	Class name list of core metadata is shown
(3)	Show all meta data	All meta data is displayed on a new tab
(4)	Core meta data	Core meta data selected by class name drop-down list is displayed
(5)	Item name drop-down list	Item name list of specific meta data is shown
(6)	Specific meta data	Specific meta data selected by item name drop-down list is shown

#### 2.6.6. Put Scenes into Cart

Select scenes to order on the search result list of ASTER and PALSAR respectively. Check [Cart] of each scene to select for order. The selected scene is highlighted in red frame on map.

After selecting scenes to order, click [Add to Cart (ASTER)] or [Add to Cart (PALSAR)] to put the scenes into cart.



Fig. 2.6.6-1 Check [Cart] and click [Add to Cart (ASTER)]

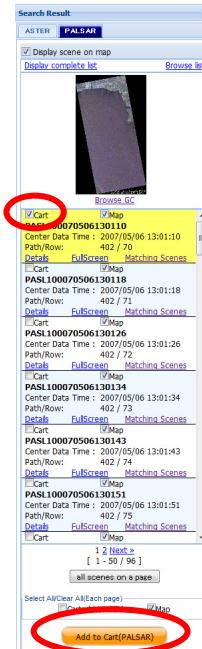


Fig. 2.6.6-2 Check [Cart] and click [Add to Cart (PALSAR)]

### 2.6.7. Display Complete List of Search Result

Click [Display complete list] on top of Search Result window to show all the search results in the format of complete list. This list has different items between ASTER and PALSAR, both of which can be displayed on each tab of Search Result individually.



Fig. 2.6.7-1 Click [Display complete list]

The below example is a complete list of ASTER search result.

Product Search Result											
Search Condition			Download								
Search Type	Inventory		kmz	scenes : (56.0KB)							
Sensor	ASTER		csv	scenes : (95.6KB)							
Instrument Mode	Full Mode										
Search Date / Time	Continuous Time Range										
Start Date/Time	2000/07/03 10:54:26										
End Date/Time	2012/07/03 10:54:26										
Search Area Type	Rectangle Area Search										
Northernmost Latitude	46.40625										
Westernmost Longitude	129.375										
Southernmost Latitude	28.125										
Easternmost Longitude	156.09375										
Day or Night	Day										
Cloud Coverage(%)	20										
Max Number of Granules	500										
Granule ID	Date / Time of the Scene Center	Center Latitude	Center Longitude	Instrument Mode	Product Type	Day or Night	Cloud Coverage(%)	Northernmost Latitude	Westernmost Longitude	Southernmost Latitude	Easternmost Longitude
ASTL1A 0007040232120206040841	2000/07/04 02:32:12	34.5951	129.583	Full Mode	L1A	Day	11	34.922	129.1687	34.2672	130.0029
ASTL1A 00070402322120206040842	2000/07/04 02:32:21	34.0653	128.4293	Full Mode	L1A	Day	7	34.3919	129.0178	33.7376	129.8463
ASTL1A 000704023230206040843	2000/07/04 02:32:30	33.5354	129.2771	Full Mode	L1A	Day	10	33.8617	128.8684	33.208	129.6913
ASTL1A 0007040232390206040844	2000/07/04 02:32:39	33.0051	129.1264	Full Mode	L1A	Day	17	33.3313	128.7203	32.678	129.5378
ASTL1A 0007040232480206040845	2000/07/04 02:32:48	32.4747	128.877	Full Mode	L1A	Day	8	32.8006	128.5735	32.1478	129.3857
ASTL1A 0007060219420206070656	2000/07/06 02:19:24	36.2986	128.3659	Full Mode	L1A	Day	15	36.6242	131.9465	35.9725	132.7875
ASTL1A 0007060219420206070656	2000/07/06 02:19:42	35.2383	132.0066	Full Mode	L1A	Day	1	35.5634	131.6472	34.9127	132.4761
ASTL1A 0007060220080206070661	2000/07/06 02:20:08	33.6467	131.6135	Full Mode	L1A	Day	4	33.9711	131.2085	33.3217	132.0206
ASTL1A 000706022017206070662	2000/07/06 02:20:17	33.1158	131.4673	Full Mode	L1A	Day	7	33.4401	131.0649	32.7911	131.8716
ASTL1A 0007060220260206070663	2000/07/06 02:20:26	32.5847	131.3223	Full Mode	L1A	Day	18	32.9087	130.9225	32.2602	131.724
ASTL1A 0007060220350206070664	2000/07/06 02:20:35	32.0536	131.1786	Full Mode	L1A	Day	16	32.3774	130.7813	31.7293	131.5777
ASTL1A 0007060220440206070665	2000/07/06 02:20:44	31.5222	131.0361	Full Mode	L1A	Day	8	31.8458	130.6412	31.1981	131.4327
ASTL1A 0007060220530206070666	2000/07/06 02:20:53	30.9997	130.8948	Full Mode	L1A	Day	7	31.3142	130.5023	30.6668	131.289
ASTL1A 0007060221110206070666	2000/07/06 02:21:10	29.9274	130.6156	Full Mode	L1A	Day	10	30.2505	130.2277	29.6039	131.0052
ASTL1A 0007060221280206070670	2000/07/06 02:21:28	28.8634	130.3407	Full Mode	L1A	Day	11	29.1862	129.9571	28.5403	130.7258
ASTL1A 0007060221370206070671	2000/07/06 02:21:37	28.3313	130.2048	Full Mode	L1A	Day	1	28.6538	129.8232	28.0083	130.5878
ASTL1A 0007060207460302050129	2000/07/08 02:07:46	33.647	134.7012	Full Mode	L1A	Day	4	33.9715	134.2962	33.3221	135.1081
ASTL1A 0007080207559302050130	2000/07/08 02:07:55	33.1162	134.5549	Full Mode	L1A	Day	2	33.4404	134.1526	32.7915	134.6592
ASTL1A 0007080208040302050131	2000/07/08 02:08:04	32.5851	134.4099	Full Mode	L1A	Day	0	32.9091	134.0102	32.2605	134.8116
ASTL1A 0007080208130302050132	2000/07/08 02:08:13	32.0539	134.2652	Full Mode	L1A	Day	0	32.3777	133.869	31.7296	134.6653
ASTL1A 0007080208220302050133	2000/07/08 02:08:22	31.5226	134.1238	Full Mode	L1A	Day	1	31.8463	133.7289	31.1985	134.5203

Fig. 2.6.7-2 Complete list of ASTER search result

The below example is a complete list of PALSAR search result.

Product Search Result														
Search Condition			Download											
Search Type	Inventory		kmz	scenes : (52.3KB)										
Sensor	PALSAR		csv	scenes : (120.0KB)										
Instrument Mode	FBS FBD SCN PLR													
Search Date / Time	Continuous Time Range													
Start Date/Time	2000/07/03 10:54:26													
End Date/Time	2012/07/03 10:54:26													
Search Area Type	Rectangle Area Search													
Northernmost Latitude	46.40625													
Westernmost Longitude	129.375													
Southernmost Latitude	28.125													
Easternmost Longitude	156.09375													
Orbit Data	Any													
Ascending / Descending	Any													
Max Number of Granules	500													
Granule ID	Path	Row	Date / Time of the Scene Center	Center Latitude	Center Longitude	Ascending/Descending	Orbit Data	Instrument Mode	Product Type	Cycle	Northernmost Latitude	Westernmost Longitude	Southernmost Latitude	Easternmost Longitude
PASL100060427011039	58	298	2006/04/27 01:10:39	31.9493	138.82	DES	High Accuracy Orbit Data	Fine Mode 1Hz Off-Nadir Angle 34.3deg	L1.0	3	32.3049	138.398	31.5898	139.2614
PASL100060515125344	400	70	2006/05/15 12:53:44	35.0652	140.559	ASC	High Accuracy Orbit Data	Polarimetric Mode / Off-Nadir Angle 21.5deg	L1.0	3	35.3975	140.282	34.7311	140.824
PASL100060515125352	400	71	2006/05/15 12:53:52	35.5594	140.435	ASC	High Accuracy Orbit Data	Polarimetric Mode / Off-Nadir Angle 21.5deg	L1.0	3	35.8931	140.166	35.2251	140.701
PASL100060515125400	400	72	2006/05/15 12:54:00	36.0567	140.33	ASC	High Accuracy Orbit Data	Polarimetric Mode / Off-Nadir Angle 21.5deg	L1.0	3	36.3889	140.05	35.7192	140.578
PASL100060515125409	400	73	2006/05/15 12:54:09	36.5507	140.204	ASC	High Accuracy Orbit Data	Polarimetric Mode / Off-Nadir Angle 21.5deg	L1.0	3	36.8829	139.922	36.2164	140.472
PASL100060515125417	400	74	2006/05/15 12:54:17	37.0444	140.076	ASC	High Accuracy Orbit Data	Polarimetric Mode / Off-Nadir Angle 21.5deg	L1.0	3	37.3767	139.793	36.7101	140.347

Fig. 2.6.7-3 Complete list of PALSAR search result

## 2.6.8. Download Search Result

Complete list of product search result currently displayed can be downloaded in KMZ or CSV format from [Download] field (KMZ format is the compressed file of KML).

Product Search Result														
Search Condition		Download			Search Results									
Search Type	Inventory	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz
Area	All	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz
Instrument Mode	Full Mode	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz
Search Date / Time	Continuous Time Range	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz
Start Date / Time	2000/07/03 10:54:26	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz
End Date / Time	2012/07/03 10:54:26	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz
Search Area Type	Continuous Area Search	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz
Northernmost Latitude	45.000000	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz
Westernmost Longitude	129.125000	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz
Southernmost Latitude	29.125000	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz
Easternmost Longitude	156.937500	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz
Date or Night	Day	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz
Cloud Coverage (%)	20	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz
Max Number of Granules	500	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz	kmz (100,000)	kmz
Granule ID		Time of the Search			Center Latitude			Center Longitude			Instrument Mode			Project Type
ASLR1A_00704232321200040841		2000/07/04 00:32:32			34.3951			129.583			Full Mode			LIA
ASLR1A_00704232321200040842		2000/07/04 00:32:32	2000/07/04 00:32:32	2000/07/04 00:32:32	34.3951	129.583	ASLR1A	Day	11	34.922	129.1687	34.2672	130.0029	
ASLR1A_00704232321200040843		2000/07/04 00:32:32	2000/07/04 00:32:32	2000/07/04 00:32:32	34.3951	129.583	ASLR1A	Day	7	34.919	129.0178	33.7376	129.8463	
ASLR1A_00704232320300640844		2000/07/04 00:32:30	2000/07/04 00:32:30	2000/07/04 00:32:30	33.3354	129.2771	ASLR1A	Full Mode	10	33.8617	128.8664	33.208	129.6913	
ASLR1A_00704232320300640844		2000/07/04 00:32:30	2000/07/04 00:32:30	2000/07/04 00:32:30	33.3354	129.2771	ASLR1A	Full Mode	17	33.3313	128.7202	32.678	129.5376	
ASLR1A_00704232320300640845		2000/07/04 00:32:30	2000/07/04 00:32:30	2000/07/04 00:32:30	33.3354	129.2771	ASLR1A	Full Mode	8	32.8006	128.5723	32.1478	129.3857	
ASLR1A_00704232320300640846		2000/07/04 00:32:30	2000/07/04 00:32:30	2000/07/04 00:32:30	33.3354	129.2771	ASLR1A	Full Mode	15	32.6662	128.4202	31.592	129.2359	
ASLR1A_00704232320300640847		2000/07/04 00:32:30	2000/07/04 00:32:30	2000/07/04 00:32:30	33.3354	129.2771	ASLR1A	Full Mode	4	35.5524	131.5472	34.9427	132.4764	
ASLR1A_00704232320300640848		2000/07/04 00:32:30	2000/07/04 00:32:30	2000/07/04 00:32:30	33.3354	129.2771	ASLR1A	Full Mode	7	33.4401	131.0049	32.7913	131.8716	
ASLR1A_00704232320300640849		2000/07/04 00:32:30	2000/07/04 00:32:30	2000/07/04 00:32:30	33.3354	129.2771	ASLR1A	Full Mode	4	33.0114	131.2085	33.3217	132.0206	
ASLR1A_00704232320300640850		2000/07/04 00:32:30	2000/07/04 00:32:30	2000/07/04 00:32:30	33.3354	129.2771	ASLR1A	Full Mode	7	33.4401	131.0049	32.7913	131.8716	
ASLR1A_0070423220620070646		2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	32.3847	131.3223	ASLR1A	Full Mode	18	32.9087	130.9225	32.2062	131.724	
ASLR1A_0070423220620070646		2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	32.3847	131.3223	ASLR1A	Full Mode	16	32.3774	130.7813	31.7293	131.5777	
ASLR1A_0070423220620070646		2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	32.3847	131.3223	ASLR1A	Full Mode	8	31.8458	130.6412	31.1981	131.4327	
ASLR1A_0070423220620070646		2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	32.3847	131.3223	ASLR1A	Full Mode	7	31.3142	130.5028	30.6656	131.289	
ASLR1A_0070423220620070646		2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	32.3847	131.3223	ASLR1A	Full Mode	10	30.2505	130.2277	29.6039	131.0052	
ASLR1A_0070423220620070647		2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	32.3847	131.3223	ASLR1A	Full Mode	11	29.4662	129.9571	28.5403	130.7258	
ASLR1A_0070423220620070648		2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	32.3847	131.3223	ASLR1A	Full Mode	4	28.6558	130.2252	28.0083	130.9852	
ASLR1A_0070423220620070649		2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	2000/07/05 00:20-20:26	32.3847	131.3223	ASLR1A	Full Mode	4	28.1264	130.2952	28.1093	131.1951	
ASLR1A_0070820282030205111		2000/07/08 00:04-08:04	2000/07/08 00:04-08:04	2000/07/08 00:04-08:04	33.1162	134.5049	ASLR1A	Full Mode	2	33.4404	134.1526	32.7915	134.9562	
ASLR1A_0070820282030205111		2000/07/08 00:04-08:04	2000/07/08 00:04-08:04	2000/07/08 00:04-08:04	33.1162	134.5049	ASLR1A	Full Mode	0	32.6091	134.0102	32.2605	134.8116	
ASLR1A_0070820282030205113		2000/07/08 00:04-08:04	2000/07/08 00:04-08:04	2000/07/08 00:04-08:04	33.1162	134.5049	ASLR1A	Full Mode	0	32.3777	133.8693	31.7296	134.6653	
ASLR1A_0070820282030205113		2000/07/08 00:04-08:04	2000/07/08 00:04-08:04	2000/07/08 00:04-08:04	33.1162	134.5049	ASLR1A	Full Mode	1	31.8483	133.7289	31.1985	134.5203	

**Fig. 2.6.8-1 Complete list of ASTER search result**

Product Search Result															
Search Condition				Download											
Search Type	Inventory	New Scenes (152,368)			Downloaded (123,088)			Pending (29,280)			Total (152,368)				
Sensor	PALSAR	Start Date / Time	Continuous Time Range	Instrument Mode	RBS FBD SCN PUR	End Date / Time	Continuous Time Range	Search Area Type	Rectangle Area Search	Product Type	Image	Cycle			
Start Date / Time	2000/07/03 10:54:26	End Date / Time	2000/07/03 10:54:26	Instrument Mode	RBS FBD SCN PUR	Search Area Type	Rectangle Area Search	Northermmost Latitude	45.40825	Product Type	Image	Cycle			
End Date / Time	2000/07/03 10:54:26	Search Area Type	Rectangle Area Search	Northermmost Latitude	45.40825	Instrument Mode	RBS FBD SCN PUR	Northermmost Latitude	45.40825	Product Type	Image	Cycle			
Search Area Type	Rectangle Area Search	Northermmost Latitude	45.40825	Instrument Mode	RBS FBD SCN PUR	Northermmost Latitude	45.40825	Instrument Mode	RBS FBD SCN PUR	Product Type	Image	Cycle			
Northermmost Latitude	45.40825	Instrument Mode	RBS FBD SCN PUR	Northermmost Latitude	45.40825	Instrument Mode	RBS FBD SCN PUR	Northermmost Latitude	45.40825	Product Type	Image	Cycle			
Westermmost Longitude	129.375	Instrument Mode	RBS FBD SCN PUR	Westermmost Longitude	129.375	Instrument Mode	RBS FBD SCN PUR	Westermmost Longitude	129.375	Product Type	Image	Cycle			
Northermmost Latitude	45.40825	Instrument Mode	RBS FBD SCN PUR	Northermmost Latitude	45.40825	Instrument Mode	RBS FBD SCN PUR	Northermmost Latitude	45.40825	Product Type	Image	Cycle			
Eastermmost Longitude	165.625	Instrument Mode	RBS FBD SCN PUR	Eastermmost Longitude	165.625	Instrument Mode	RBS FBD SCN PUR	Eastermmost Longitude	165.625	Product Type	Image	Cycle			
Orbit Data	Any	Instrument Mode	RBS FBD SCN PUR	Orbit Data	Any	Instrument Mode	RBS FBD SCN PUR	Orbit Data	Any	Product Type	Image	Cycle			
Ascending / Descending	Any	Instrument Mode	RBS FBD SCN PUR <th>Ascending / Descending</th> <td>Any</td> <th>Instrument Mode</th> <td>RBS FBD SCN PUR<th>Ascending / Descending</th><td>Any</td><th>Product Type</th><td>Image</td><th>Cycle</th></td>	Ascending / Descending	Any	Instrument Mode	RBS FBD SCN PUR <th>Ascending / Descending</th> <td>Any</td> <th>Product Type</th> <td>Image</td> <th>Cycle</th>	Ascending / Descending	Any	Product Type	Image	Cycle			
Max Number of Granules	500	Instrument Mode	RBS FBD SCN PUR <th>Max Number of Granules</th> <td>500</td> <th>Instrument Mode</th> <td>RBS FBD SCN PUR<th>Max Number of Granules</th><td>500</td><th>Product Type</th><td>Image</td><th>Cycle</th></td>	Max Number of Granules	500	Instrument Mode	RBS FBD SCN PUR <th>Max Number of Granules</th> <td>500</td> <th>Product Type</th> <td>Image</td> <th>Cycle</th>	Max Number of Granules	500	Product Type	Image	Cycle			
Granule ID	Path Row	Date / Time of the Scene Center	Center Latitude	Center Longitude	Ascending / Descending	Orbit Data		Instrument Mode	Product Type	Cycle	Northermmost Latitude	Westermmost Longitude	Northermmost Latitude	Eastermmost Longitude	
PASL10006042701039	56	298	2006/04/27 01:10:39	31.9493	138.82	DES	High Accuracy Orbit Data	Polarmetric Mode / Off-Null Azimuth Angle 21.5deg	Image	L1.0	3	33.3049	138.398	31.5898	139.2614
PASL100060515123344	400	70	2006/05/15 12:53:44	35.0652	140.559	ASC	High Accuracy Orbit Data	Polarmetric Mode / Off-Null Azimuth Angle 21.5deg	Image	L1.0	3	35.3975	140.282	34.7311	140.824
PASL100060515125352	400	71	2006/05/15 12:53:52	35.5594	140.435	ASC	High Accuracy Orbit Data	Polarmetric Mode / Off-Null Azimuth Angle 21.5deg	Image	L1.0	3	35.8931	140.166	35.2251	140.701
PASL100060515125400	400	72	2006/05/15 12:54:00	36.0567	140.33	ASC	High Accuracy Orbit Data	Polarmetric Mode / Off-Null Azimuth Angle 21.5deg	Image	L1.0	3	36.3889	140.05	35.7192	140.578
PASL100060515125409	400	73	2006/05/15 12:54:09	36.5507	140.204	ASC	High Accuracy Orbit Data	Polarmetric Mode / Off-Null Azimuth Angle 21.5deg	Image	L1.0	3	36.8829	139.922	36.2164	140.472
PASL100060515125417	400	74	2006/05/15 12:54:17	37.0444	140.076	ASC	High Accuracy Orbit Data	Polarmetric Mode / Off-Null Azimuth Angle 21.5deg	Image	L1.0	3	37.3767	139.793	36.7101	140.347

## Fig. 2.6.8-2 Complete list of PALSAR search result

Click [scenes: (xxkB)] to download the list.

## 2.6.9. Display Browse list

Click [Browse list] on top of the Search Result window to display all the browse images of product search result as a list on a single screen. This browse list has different items between ASTER and PALSAR, both of which can be displayed on each tab of Search Result individually.

Select the scene to order and click [Add to Cart] on Browse list screen.



Fig. 2.6.9-1 Click [Browse list]

An example of ASTER Browse list is shown below.

Show: 10 entries (1)						Search: (6)	
Details	Center Data Time	Instrument Mode	Cloud Coverage(%)	Day or Night	VHRR	SWIR	TIR
(2) ASTL1A 0007040232120206040841 Level 1A FullScreen Add to Cart	2000/07/04 02:32:12	Full Mode	11	Day			
ASTL1A 0007040232210206040842 Level 1A FullScreen Add to Cart	2000/07/04 02:32:21	Full Mode	7	Day			
ASTL1A 0007040232300206040843 Level 1A FullScreen Add to Cart	2000/07/04 02:32:30	Full Mode	10	Day			
ASTL1A 0007040232390206040844 Level 1A FullScreen Add to Cart	2000/07/04 02:32:39	Full Mode	17	Day			
ASTL1A 0007040232480206040845 Level 1A FullScreen Add to Cart	2000/07/04 02:32:48	Full Mode	8	Day			

(5)

Fig. 2.6.9-2 ASTER Browse list screen

**Table 2.6.9-1 Contents of ASTER Browse list screen**

No.	Contents	Description
(1)	Show entries pull-down menu	Number of scenes to display on a page is selected
(2)	Inventory Information	<p>The below inventory information is indicated in each column.</p> <ul style="list-style-type: none"><li>- Detailed product information</li><li>- Observation date and time of scene center</li><li>- Observation mode</li><li>- Cloud coverage (%)</li><li>- Day or Night</li></ul> <p>Product Detailed Info screen shows up when clicking [Full Screen] link under each granule ID. Also, scene can be selected for order by checking [Add to Cart].</p> <p>Order of scenes can be sorted by item name of selected column.</p>
(3)	Browse Images	<p>Browse Images are displayed.</p> <p>In case browse image does not exist for the scene, a message [No Browse Image] appears. Browse image is enlarged on a new screen when clicking the image.</p>
(4)	Paging	<p>Displayed page of search result list is switched by clicking [First], [Previous], [Next], [Last], or a page number.</p> <p>Scenes in search result list are displayed on a page up to the number of scenes specified by [ShowEntries] menu. If the search result has over the specified number of scenes, they are divided in plural pages</p>
(5)	Add to Cart (ASTER)	The scene is put into cart when [Add

		to Cart] is checked in the list.
(6)	Search	Search is conducted for all the contents in the list, which partially match to the text entered in this box. Only the scenes to meet the search result are displayed.

An example of PALSAR Browse list is shown below.

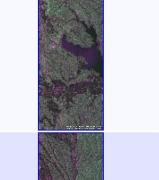
Show 10 ▾ entries (1)	Center Data Time	Instrument Mode	Orbit Data	Ascending/Descending	Path	Row	BROWSE (6)
Details	Center Data Time	Instrument Mode	Orbit Data	Ascending/Descending	Path	Row	
(2) PASL100060427011039 PALSAR L1.0 DATA <a href="#">FullScreen</a> <input type="checkbox"/> Add to Cart	2006/04/27 01:10:39	Fine Mode / HH / Off-Nadir Angle 34.3deg	High Accuracy Orbit Data	DES	58	298	
PASL100060515125344 PALSAR L1.0 DATA <a href="#">FullScreen</a> <input type="checkbox"/> Add to Cart	2006/05/15 12:53:44	Polarimetric Mode / Off-Nadir Angle 21.5deg	High Accuracy Orbit Data	ASC	400	70	
PASL100060515125352 PALSAR L1.0 DATA <a href="#">FullScreen</a> <input type="checkbox"/> Add to Cart	2006/05/15 12:53:52	Polarimetric Mode / Off-Nadir Angle 21.5deg	High Accuracy Orbit Data	ASC	400	71	
PASL100060515125400 PALSAR L1.0 DATA <a href="#">FullScreen</a> <input type="checkbox"/> Add to Cart	2006/05/15 12:54:00	Polarimetric Mode / Off-Nadir Angle 21.5deg	High Accuracy Orbit Data	ASC	400	72	
PASL100060515125409 PALSAR L1.0 DATA <a href="#">FullScreen</a> <input type="checkbox"/> Add to Cart	2006/05/15 12:54:09	Polarimetric Mode / Off-Nadir Angle 21.5deg	High Accuracy Orbit Data	ASC	400	73	
(5)							

Fig. 2.6.9-3 PALSAR Browse list screen

Table 2.6.9-2 Contents of PALSAR Browse list screen

No.	Contents	Description
(1)	Show entries pull-down menu	Number of scenes to display on a page is selected
(2)	Inventory Information	The below inventory information is indicated in each column. - Detailed product information

		<ul style="list-style-type: none"> <li>- Observation date and time of scene center</li> <li>- Observation mode</li> <li>- Orbit Data</li> <li>- Ascending/Descending</li> <li>- Path</li> <li>- Row</li> </ul> <p>Product Detailed Info screen shows up when clicking [Full Screen] link under each granule ID. Also, scene can be selected for order by checking [Add to Cart].</p> <p>Order of scenes can be sorted by item name of selected column</p>
(3)	Browse Images	<p>Browse Images are displayed.</p> <p>In case browse image does not exist for the scene, a message [No Browse Image] appears. Browse image is enlarged on a new screen when clicking the image.</p>
(4)	Paging	<p>Displayed page of search result list is switched by clicking [First], [Previous], [Next], [Last], or a page number.</p> <p>Scenes in search result list are displayed on a page up to the number of scenes specified by [ShowEntries] menu. If the search result has over the specified number of scenes, they are divided in plural pages</p>
(5)	Add to Cart (PALSAR)	<p>The scene is put into cart when [Add to Cart] is checked in the list.</p>
(6)	Search	<p>Search is conducted for all the contents in the list, which partially match to the text entered in this box.</p> <p>Only the scenes to meet the search result are displayed.</p>

### 2.6.10. Search Scenes Covering the Same Area

Click [Matching Scenes] on Search Result window to search scenes covering the same area

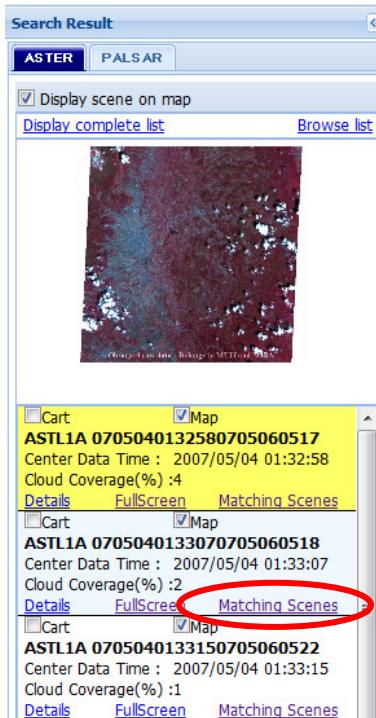
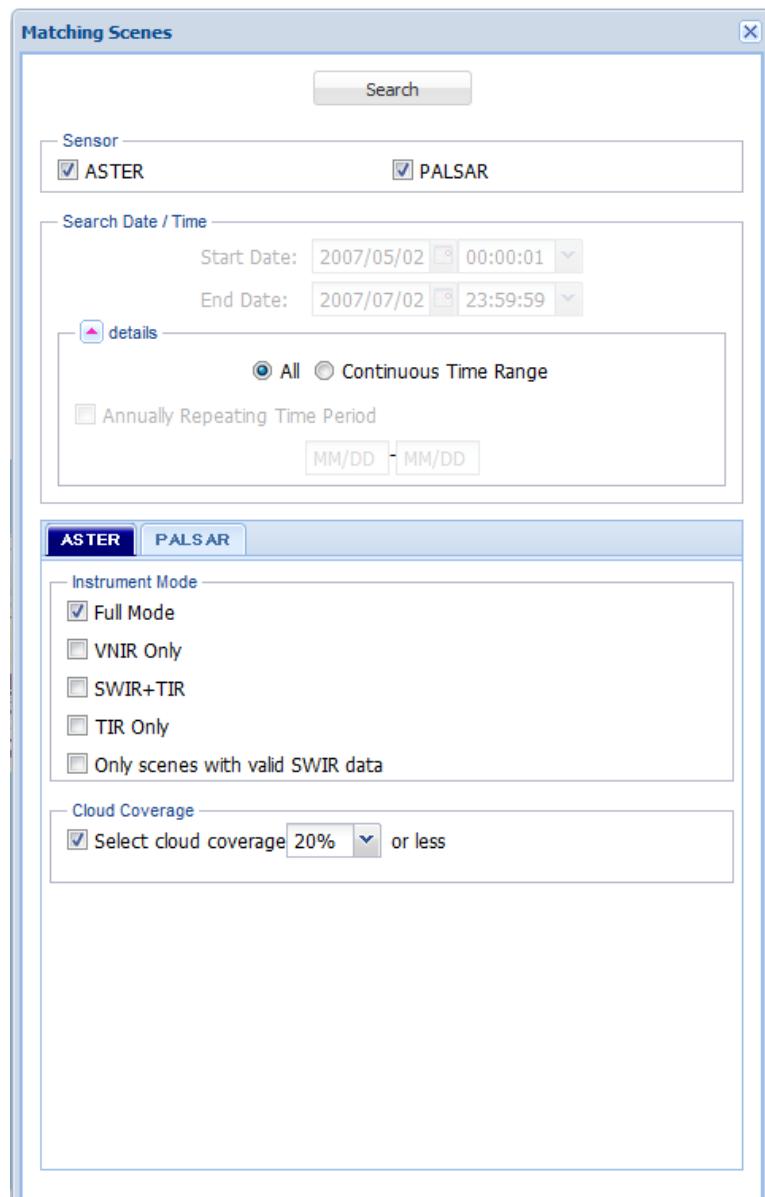
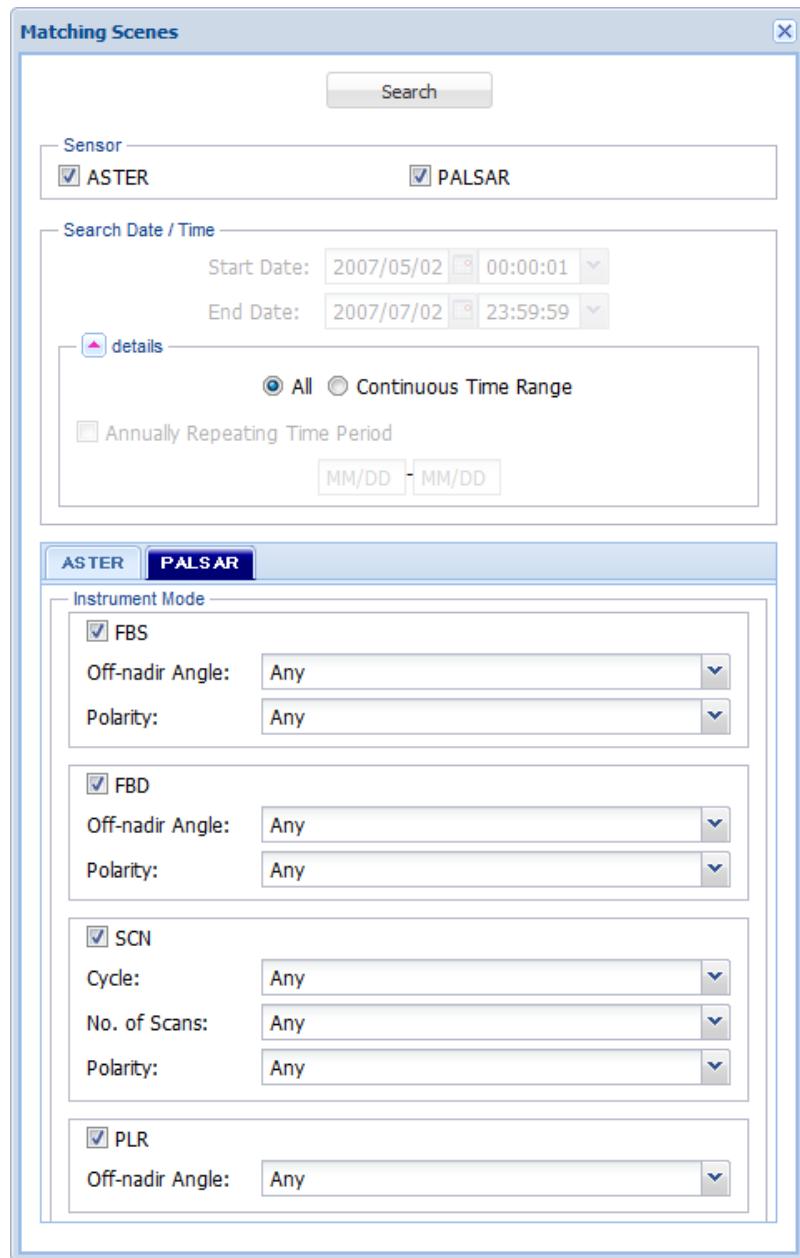


Fig. 2.6.10-1 Click [Matching Scenes]

A new window to specify the search conditions for the same area appears on a new window. The condition setting field for ASTER and PALSAR can be switched by tab.



**Fig. 2.6.10-2 Specify ASTER search conditions for Matching Scenes search**



**Fig. 2.6.10-3 Specify PALSAR search conditions for Matching Scenes search**

The below conditions can be specified for ASTER.

- Observation mode
- Cloud coverage

See <Observation Mode> and <Cloud Coverage> of [2.5.1.2 Set Specific Search Conditions for ASTER] for how to specify.

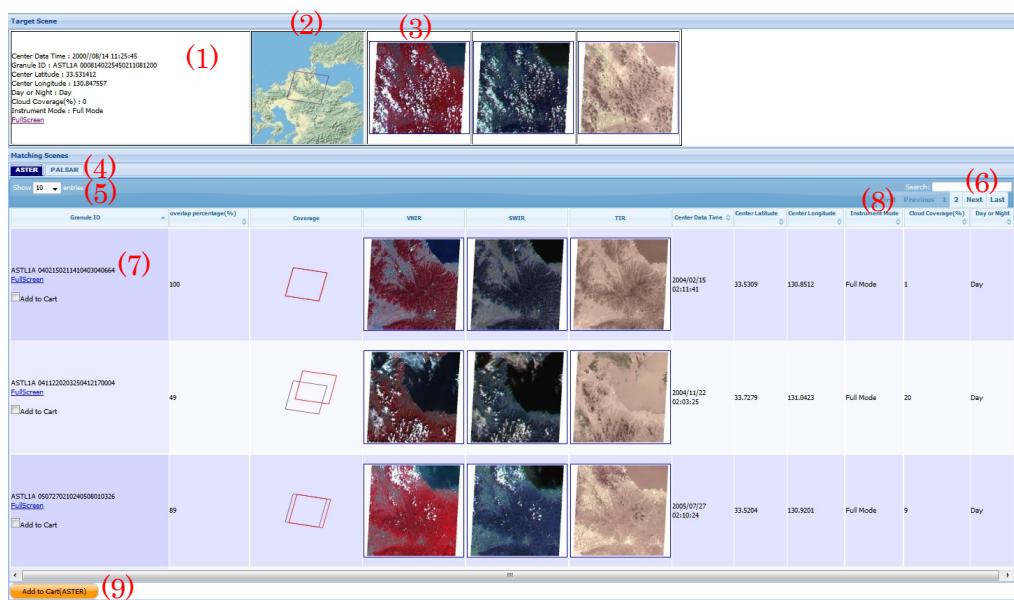
The below condition can be specified for PALSAR.

- Observation mode

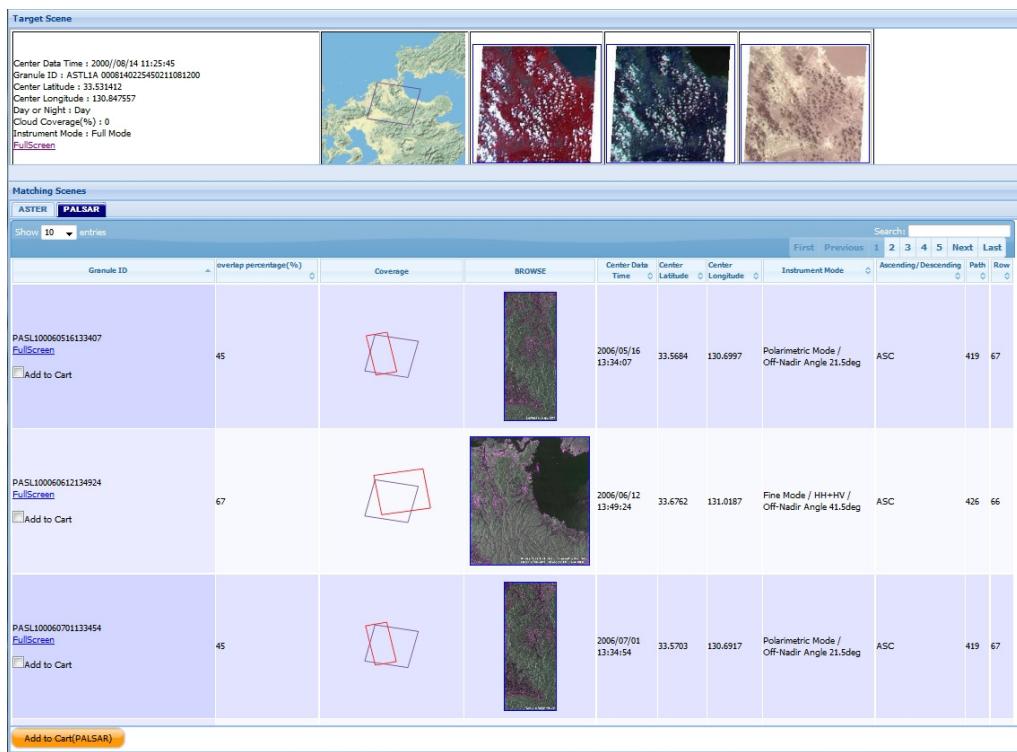
See <Observation Mode> of [2.5.1.3 Set Specific Search Conditions for PALSAR] for how to specify.

After setting search conditions, click [Search], and search result for scenes covering the same area is shown on the Search Result screen.

Scenes to order can be selected and put into cart from the search result.



**Fig. 2.6.10-4 ASTER search result for Matching Scenes**



**Fig. 2.6.10-5 PALSAR search result for Matching Scenes**

**Table 2.6.10-1 Contents of Search Result for Matching Scenes**

No.	Contents	Description
(1)	Inventory Information of target scene	Inventory information of the target scene specified in the search result list is shown.
(2)	Scene area of target scene on map	Coverage of the target scene is shown on map.
(3)	Browse images of target scene	Browse images of the target scene is shown.
(4)	ASTER/PALSAR tab	Display of search result for ASTER and PALSAR is switched by tab.
(5)	Show entries	Number of scenes to display on a page is selected from pull-down menu
(6)	Search	Search is conducted for all the contents in the list, which partially match to the text entered in this box. Only the scenes to meet the search result are displayed.
(7)	Inventory Information on retrieved scenes	The following inventory information is shown. [ASTER]

		<ul style="list-style-type: none"> <li>- Detailed Product Information</li> <li>- Scene coverage</li> <li>- Browse images</li> <li>- Overlap rate (%)</li> <li>- Observation date and time of scene center</li> <li>- Observation mode</li> <li>- Cloud coverage (%)</li> <li>- Day or Night</li> </ul> <p>[PALSAR]</p> <ul style="list-style-type: none"> <li>- Detailed Product Information</li> <li>- Scene coverage</li> <li>- Browse image</li> <li>- Overlap rate (%)</li> <li>- Observation date and time of scene center</li> <li>- Observation mode</li> <li>- Ascending / Descending</li> <li>- Path</li> <li>- Row</li> </ul> <p>Detailed Product Info screen is displayed when clicking [Full Screen] link under each granule ID. Also, scene can be selected for order by checking [Add to Cart]. Coverage shows how the target scene (purple line) and the retrieved scene (red line) overlap.</p>
(8)	Paging	Displayed page of search result list is switched by clicking [First], [Previous], [Next], [Last], or a page number. Scenes in search result list are displayed on a page up to the number of scenes specified by [ShowEntries] menu. If the search result has over the specified number of scenes, they are divided in plural pages
(9)	Add to Cart (ASTER/PALSAR)	Scenes which are checked for [Cart] are put in Cart. This procedure must be done for ASTER and PALSAR respectively.

### 2.6.11. Download AOI Search Result

To download AOI search result, select the scene to save the information of interferometry pair from the search result list and check [CSV] for the scene.

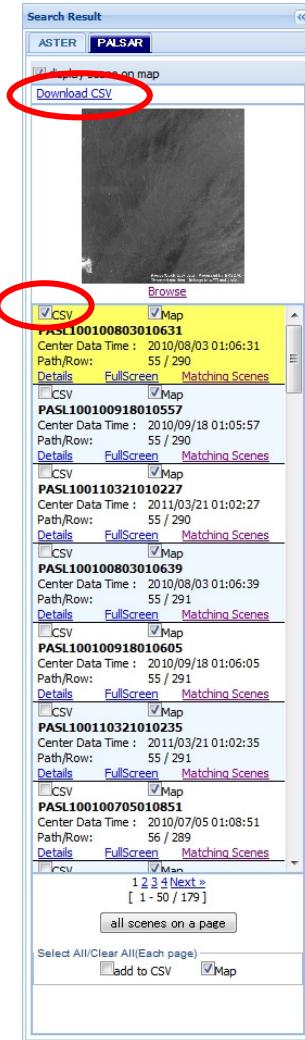


Fig. 2.6.11-1 Save the selected master image in CSV file

Next, click [Download CSV]. As the file-saving function starts according to the web browser, save the result as CSV file. The default file name is the following. Change the file name if necessary.

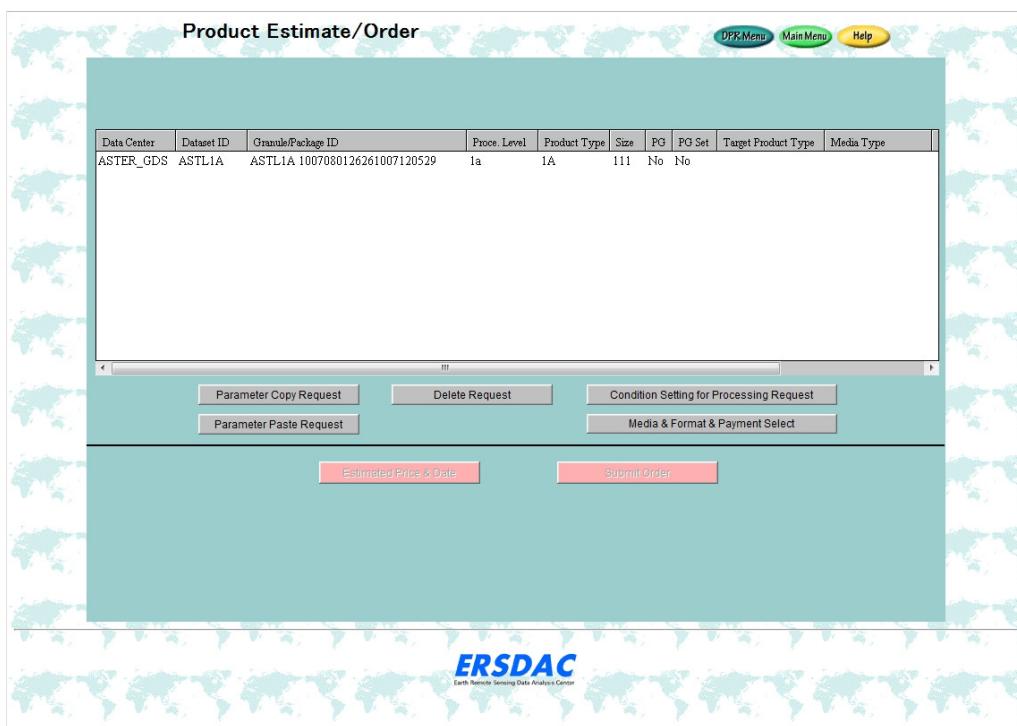
Master\_slave\_[12-digits random number]\_[year month date hour minute second when file is created].csv

## 2.7. Order Data Product

### 2.7.1. Order ASTER Data Product

By putting scenes in the search result list into cart (See [2.6.6 Put Scenes in Cart]), scenes in the Browse list into cart (See [2.6.9 Display Browse List]), or scenes covering the same area into cart (See [2.6.10 Search Scenes Covering the Same Area]), ASTER scenes can be put into cart. When the selected scenes are put in cart by one of the above methods, Product Estimate/Order screen of ASTER GDS shows up on a new window with the selected scenes in cart.

In case ASTER GDS User certification has not been done, User Certification (Login) screen appears.



**Fig. 2.7.1-2 Product Estimate/Order screen of ASTER GDS**

Ordering procedures are performed on this screen. For details on ordering procedure, see [16. Product Order Page] on the left side menu of [DPR] on top menu of the below URL.

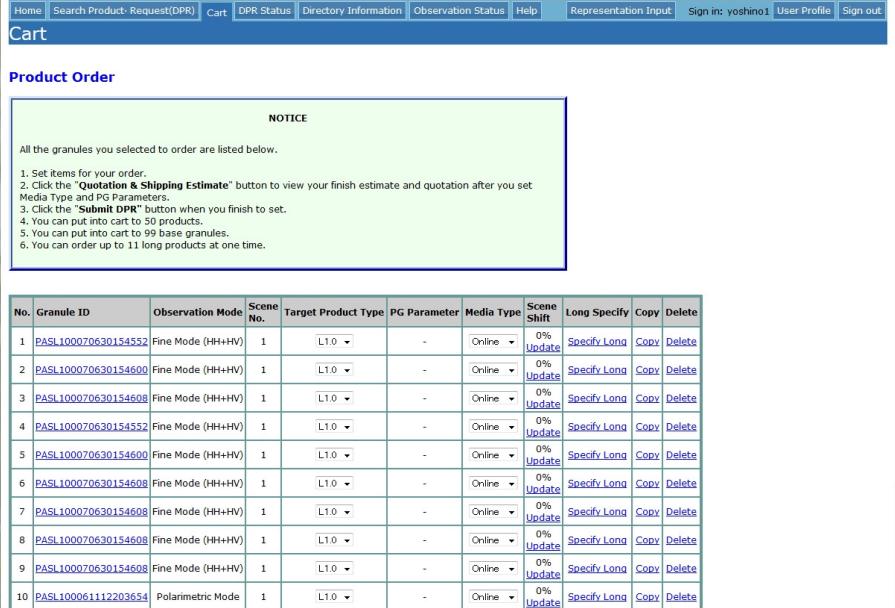
<http://ims.aster.ersdac.jspacesystems.or.jp/ims/html/Help/HelpMenu.html>

### 2.7.2. Order PALSAR Data Products

By putting scenes in the search result list into cart (See [2.6.6 Put Scenes in Cart]),

scenes in the Browse list into cart (See [2.6.9 Display Browse List]), or scenes covering the same area into cart (See [2.6.10 Search Scenes Covering the Same Area]), PALSAR scenes can be put into cart. When the selected scenes are put in cart by one of the above methods, Product Order screen of PALSAR GDS shows up on a new window with the selected scenes in cart.

In case PALSAR GDS User certification has not been done, User Certification (Login) screen appears.



The screenshot shows the 'Product Order' screen of PALSAR GDS. At the top, there is a navigation bar with links: Home, Search Product- Request(DPR), Cart, DPR Status, Directory Information, Observation Status, Help, Representation Input, Sign in: yoshino1, User Profile, and Sign out. The 'Cart' tab is selected.

**Product Order**

**NOTICE**

All the granules you selected to order are listed below.

1. Set items for your order.  
 2. Click the "Quotation & Shipping Estimate" button to view your finish estimate and quotation after you set Media Type and PG Parameter.  
 3. Click the "Submit DPR" button when you finish to set.  
 4. You can put into cart to 50 products.  
 5. You can put into cart to 99 base granules.  
 6. You can order up to 11 long products at one time.

No.	Granule ID	Observation Mode	Scene No.	Target Product Type	PG Parameter	Media Type	Scene Shift	Long Specify	Copy	Delete
1	PASL1000070630154552	Fine Mode (HH+HV)	1	L1.0 ▾	-	Online ▾	0% Update	Specify Long	Copy	Delete
2	PASL1000070630154600	Fine Mode (HH+HV)	1	L1.0 ▾	-	Online ▾	0% Update	Specify Long	Copy	Delete
3	PASL1000070630154608	Fine Mode (HH+HV)	1	L1.0 ▾	-	Online ▾	0% Update	Specify Long	Copy	Delete
4	PASL1000070630154552	Fine Mode (HH+HV)	1	L1.0 ▾	-	Online ▾	0% Update	Specify Long	Copy	Delete
5	PASL1000070630154600	Fine Mode (HH+HV)	1	L1.0 ▾	-	Online ▾	0% Update	Specify Long	Copy	Delete
6	PASL1000070630154608	Fine Mode (HH+HV)	1	L1.0 ▾	-	Online ▾	0% Update	Specify Long	Copy	Delete
7	PASL1000070630154608	Fine Mode (HH+HV)	1	L1.0 ▾	-	Online ▾	0% Update	Specify Long	Copy	Delete
8	PASL1000070630154608	Fine Mode (HH+HV)	1	L1.0 ▾	-	Online ▾	0% Update	Specify Long	Copy	Delete
9	PASL1000070630154608	Fine Mode (HH+HV)	1	L1.0 ▾	-	Online ▾	0% Update	Specify Long	Copy	Delete
10	PASL1000061112203654	Polarimetric Mode	1	L1.0 ▾	-	Online ▾	0% Update	Specify Long	Copy	Delete

**Fig. 2.7.2-2 Product Order screen of PALSAR GDS**

Ordering procedures are performed on this screen. For details on ordering procedure, see [Ordering Products] on the left side menu of the below URL.

[https://ims.palsar.ersdac.jspacesystems.or.jp/help/ims1\\_e/DPR\\_e/top\\_dpr\\_e.html](https://ims.palsar.ersdac.jspacesystems.or.jp/help/ims1_e/DPR_e/top_dpr_e.html)

### 3. Operations on Map

Map is used to specify search area and confirm search result. The below operations can be performed on map.

#### 3.1. Display Latitude and Longitude of Mouse Position

When mouse is placed on the map area, the latitude and longitude of the position where

mouse cursor point is shown on the right bottom of the map area.



**Fig. 3.1-1 Lat and Lon of mouse position**

### 3.2. Zoom-in and Zoom-out

The following functions are available to zoom-in and zoom-out the map

- + - button
- Mouse wheel
- Magnifier icon (for zoom-in only)
- Double-click in the map area (for zoom-in only)

#### **[+- button]**

The displayed area is zoomed in or out with the area in the center, when clicking + - button on top left of map area. Also, when clicking the globe icon between + and - buttons, the map is zoomed out to the global size.

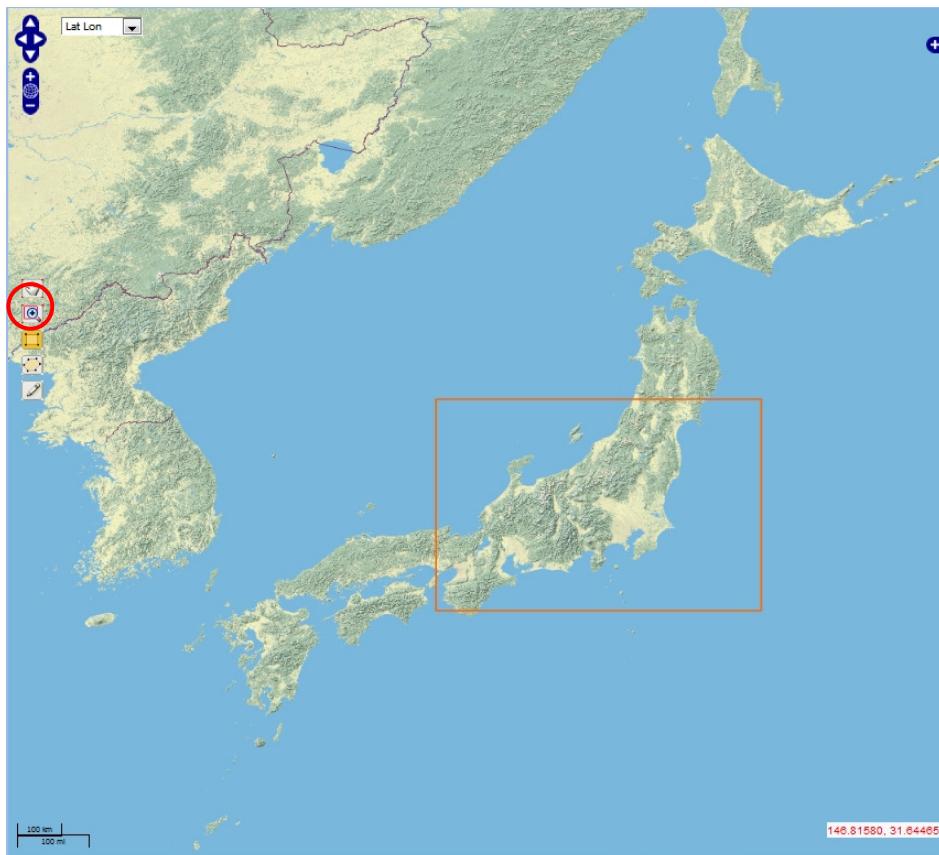
#### **[Mouse Wheel]**

When mouse wheel is turn upward, the map is zoomed in with the area in the center. Or, when mouse is turn downward, the map is zoomed out with the area in the center.

#### **[Magnifier Icon (for zoom-in only)]**

Magnifier icon can zoom in the specified area. Firstly, click the magnifier icon in the middle of left side of map area. After clicking this icon, keep the mouse left-clicked and drag it in map area, and a rectangle appears. Frame the area in rectangle and release the mouse to zoom in the specified area.

This function is available for zoom-in only.



**Fig. 3.2-1 Specify an area to zoom-in by magnifier icon**

#### **[Double-click in map area (for zoom-in only)]**

Double-click mouse in map area, and the displayed area is zoomed in with the double-clicked area in the center.

### **3.3.Move Map Area on Screen**

The following methods area available to move the displayed map area.

- Arrow buttons

- Palm icon

#### **[Arrow buttons]**

Click the arrows of right, left, up and down on top left of map area, and the displayed map area can be moved.



#### **[Palm icon]**

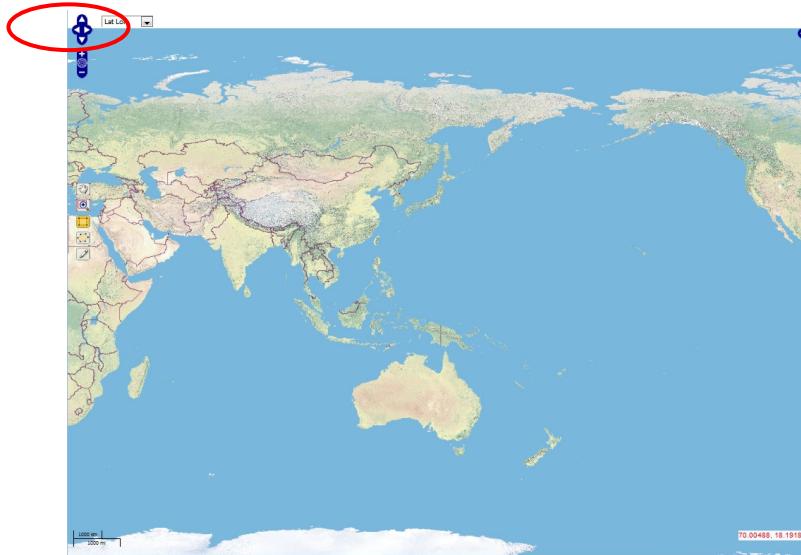
Palm icon can move the map area displayed on screen by dragging mouse in map area. Click the palm icon in the middle of left side on map area. After clicking this icon, drag the mouse to move the displayed map area.



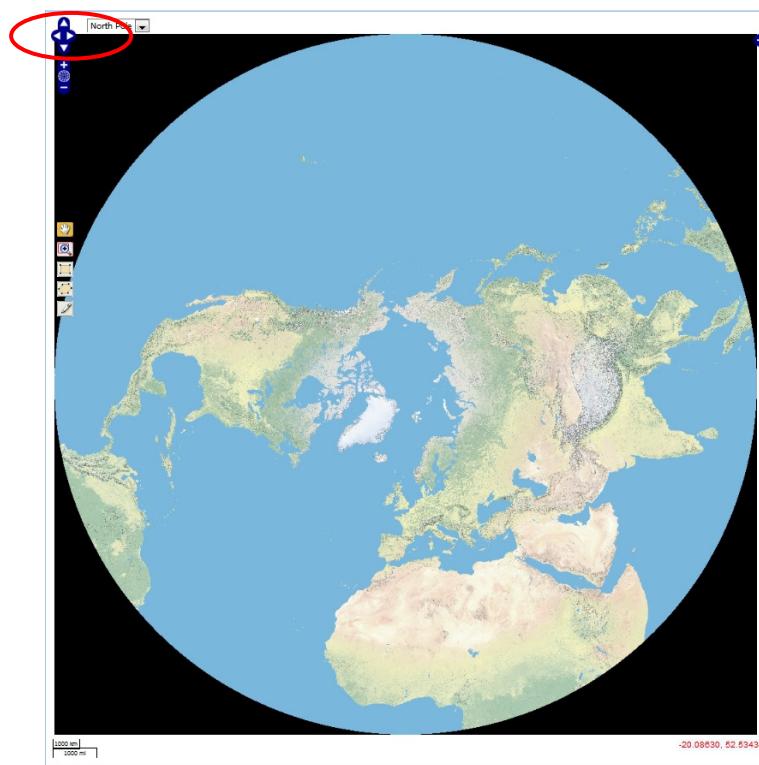
#### **3.4. Select Map Projection**

Select map projection. Combo box to show the available map projections is on top of map area. Select a map projection from this combo box. The available map projections are as follows.

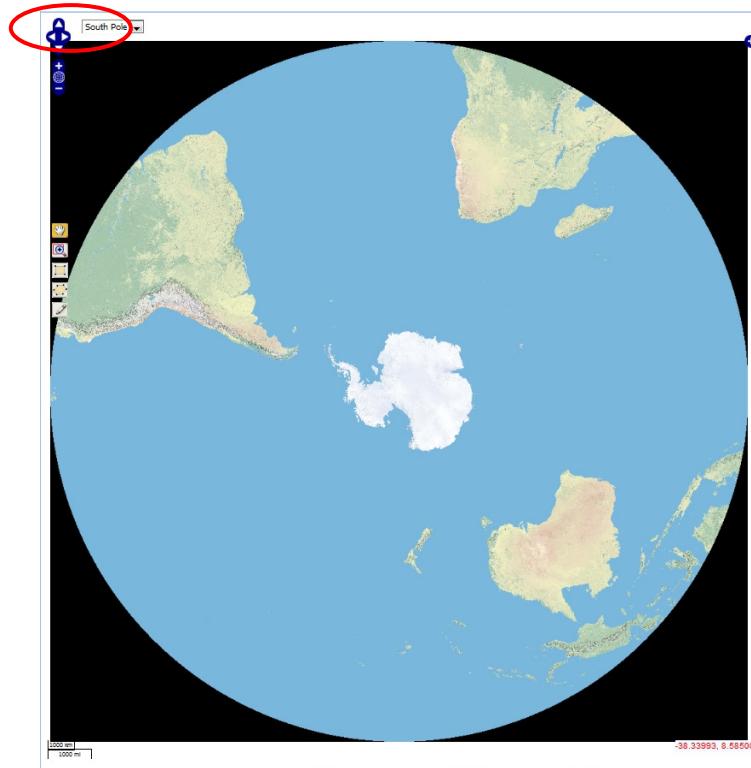
- Lat Lon : Uniform Lon/Lat (EPSG:4326)
- North Pole : Universal Polar Stereographic North (EPSG: 32661)
- South Pole : Universal Polar Stereographic South (EPSG: 32761)



**Fig. 3.4-1 Example of map display when Lat Lon projection is selected**



**Fig. 3.4-2 Example of map display when North Pole projection is selected**



**Fig. 3.4-3 Example of map display when South Pole projection is selected**

### 3.5.Specify Search Area in Rectangle

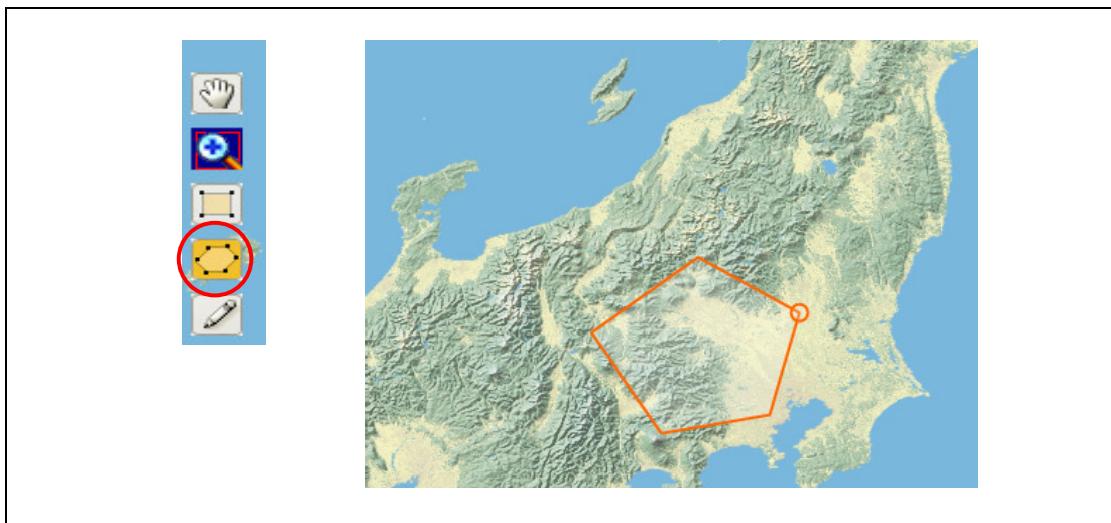
Click the icon showing rectangle in the middle of left side of map area to draw a rectangle on the map. The specified area in rectangle is targeted for search.



**Fig. 3.5-1 Specify the area in rectangle**

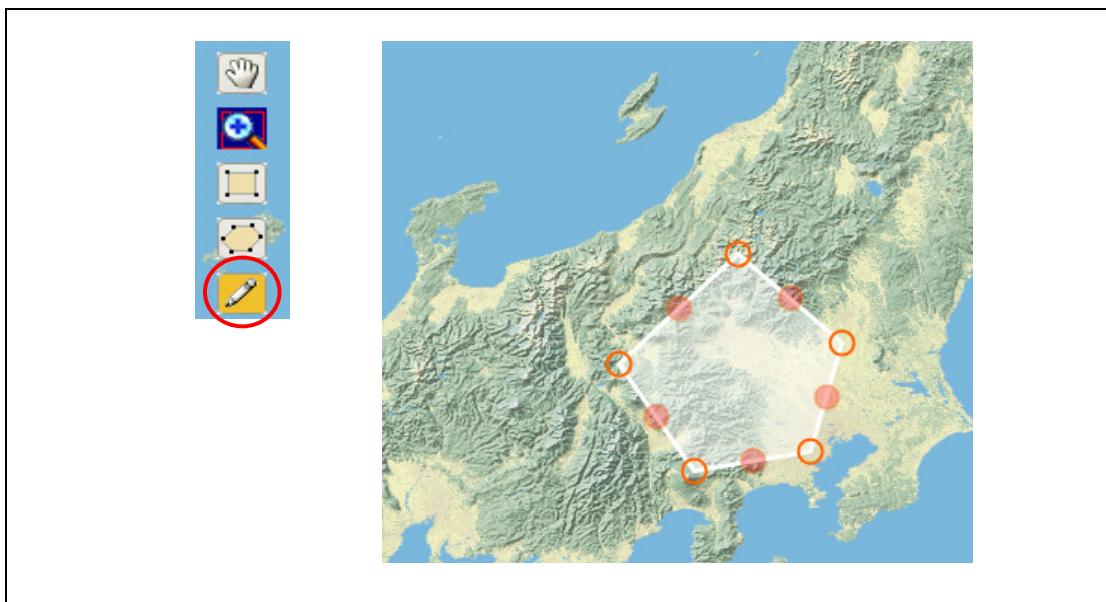
### 3.6.Specify Search Area in Polygon

Click the icon showing polygon in the middle of left side of map area to draw a polygon on map. Each vertex of the polygon can be specified by clicking mouse. To close the polygon, double-click the mouse. The area specified in polygon is targeted for search. Number of polygon's vertex must be between 3 and 1000.



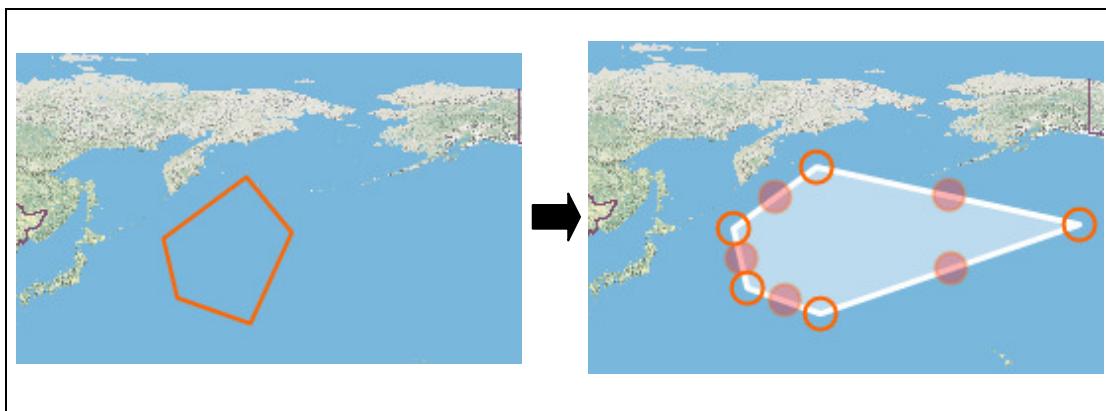
**Fig. 3.6-1 Specify the area in polygon**

Click the pencil icon to edit the polygon area. After selecting the polygon to edit, the vertex can be changed when moving a vertex (indicated in unfilled circle) with mouse. Vertex can be added by moving the point between two vertexes (indicated in filled circle) with mouse.



**Fig. 3.6-2 Edit the polygon area**

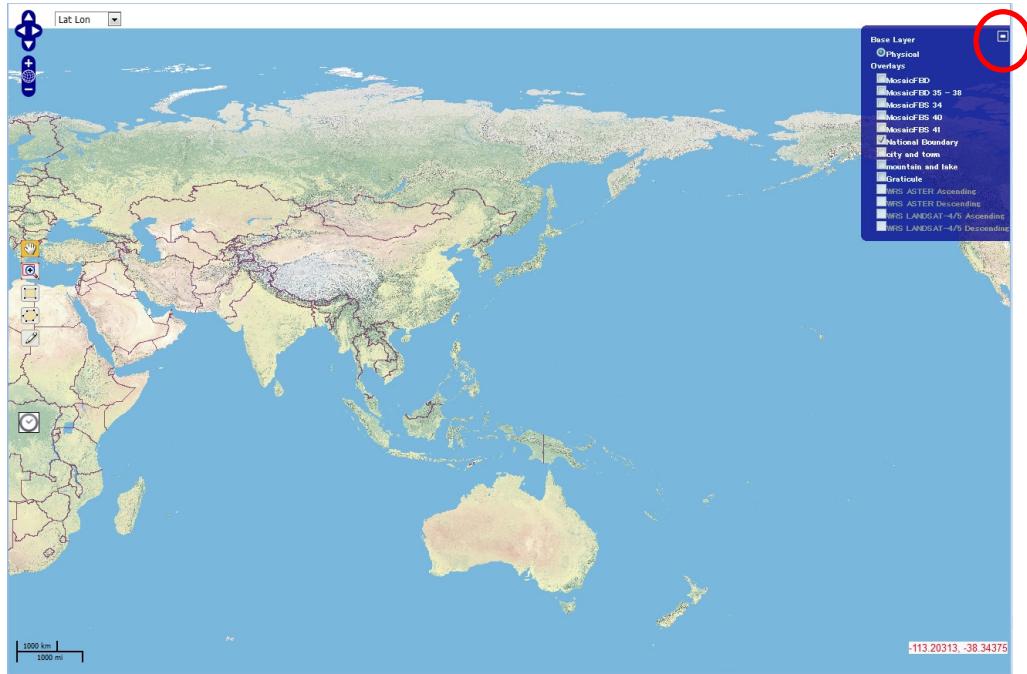
When drawing a polygon, the polygon area cannot be across the longitude 180 degrees. If the polygon needs to be drawn across the longitude 180 degrees, draw and fix the polygon in the area not across 180 degrees, and edit vertexes of the polygon, which enables to specify a polygon across the longitude 180 degrees.



**Fig. 3.6-3 Draw the polygon area across the longitude 180 degrees**

### 3.7. Switch Layers

Map layers can be switched. To switch the layer, click [+] mark and spread out the menu on the top right of map area.



**Fig. 3.7-1 Switch Layers**

Following layers can be displayed on the map. Some layers are displayed only in the specific condition.

**Table 3.7-1 Types of Layers**

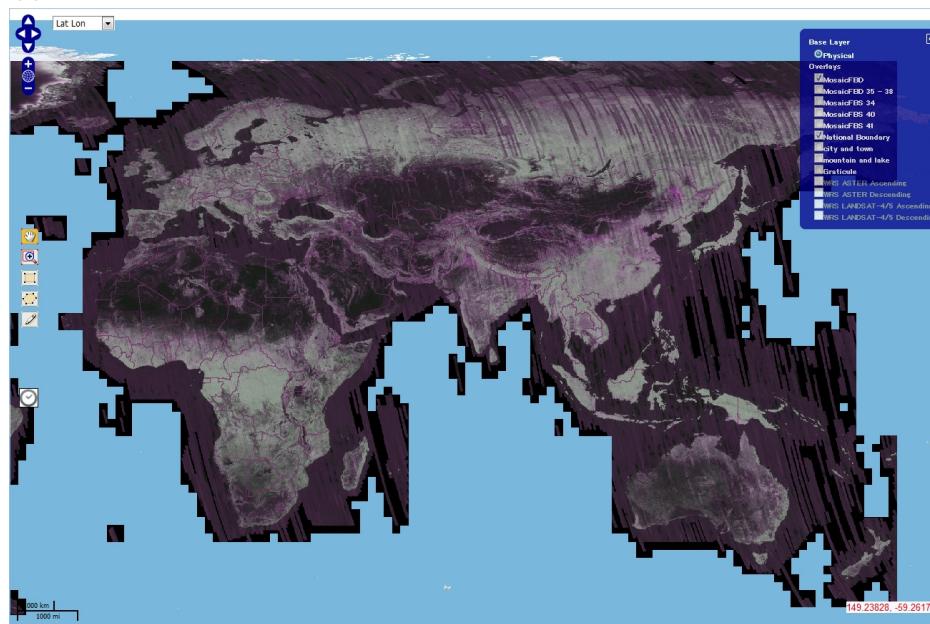
Layer type	Layer name	Condition to display	Description
Base Map	Physical	Always displayed [Display according to map projection] Lat Lon: Possible North Pole: No South Pole: No	Terrain Map
Mosaic Image	Some, such as MosaicFBD	Displayed after login [Display according to map projection] Lat Lon: Possible North Pole: No South Pole: No	Mosaic Image
Geographical	city and town	Always displayed at above a certain	Name of countries,

name		magnification rate [Display according to map projection] Lat Lon: Possible North Pole: No South Pole: No	capital cities, and cities
	mountain and lake	Always displayed at above a certain magnification rate [Display according to map projection] Lat Lon: Possible North Pole: No South Pole: No	Name of mountains and lakes
Vector Layer	National Boundary	Always displayed [Display according to map projection] Lat Lon: Possible North Pole: Possible South Pole: Possible	National Borders
	Graticule	Always displayed [Display according to map projection] Lat Lon: Possible North Pole: Possible South Pole: Possible	Grid lines
	WRS ASTER Ascending	Always displayed at above a certain magnification rate [Display according to map projection] Lat Lon: Possible North Pole: Possible South Pole: Possible	ASTER's nadir scene boundary observed from nominal ascending orbit
	WRS ASTER Descending	Always displayed at above a certain magnification rate [Display according to map projection]	ASTER's nadir scene boundary observed from nominal descending

		Lat Lon: Possible North Pole: Possible South Pole: Possible	orbit
	WRS LANSAT-4/5 Ascending	Always displayed at above a certain magnification rate [Display according to map projection] Lat Lon: Possible North Pole: Possible South Pole: Possible	LANSAT's nadir scene boundary observed from nominal ascending orbit
	WRS LANSAT-4/5 Ascending	Always displayed at above a certain magnification rate [Display according to map projection] Lat Lon: Possible North Pole: Possible South Pole: Possible	LANSAT's nadir scene boundary observed from nominal descending orbit

### [ Display/Non-display Mosaic Image ]

When selecting layer, check a name of Mosaic image such as MosaicFBD to display the mosaic image on the map, and uncheck to non-display. This function is available only when being logged in as ASTER or PALSAR user.



**Fig. 3.7-2 Map with mosaic image overlaid**

## [ Display/Non-display Geographical Name ]

Check or uncheck name of layer (city and town, mountain and lake) in the layer field to switch the display of geographical names on the map. The displayed geographical names change according to map scale.

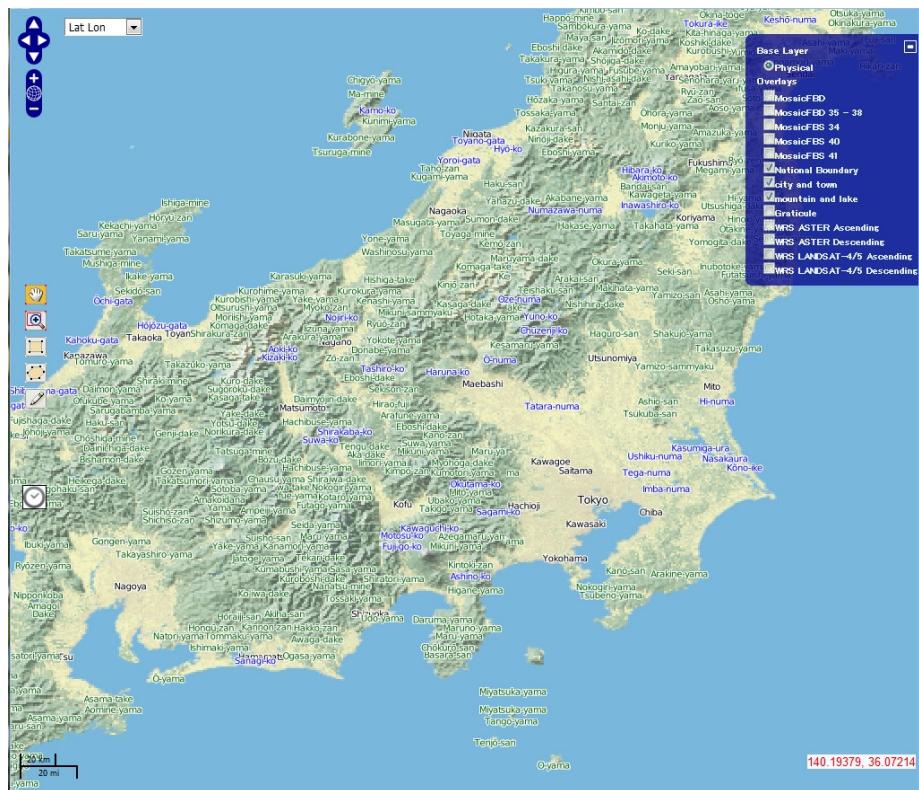


Fig. 3.7-3 Map with geographical names overlaid

## [ Display/Non-display Vector Layer ]

Check or uncheck boxes of vector layers such as grid line to switch the display and non-display on the map.

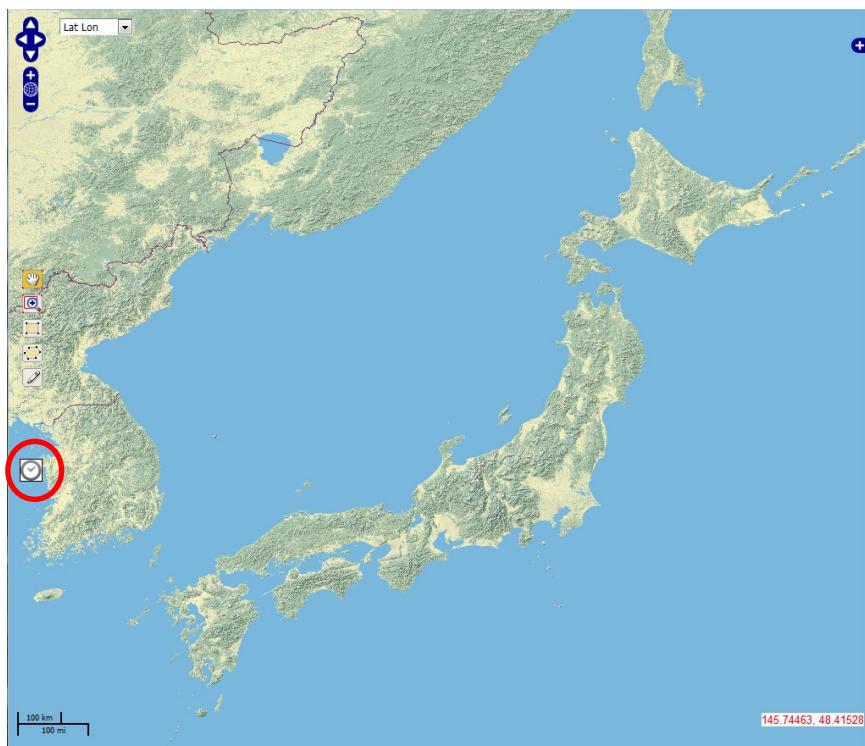
## 3.8. Display Background Images in Time Series Order

Mosaic images can be displayed in time series order as background layer. A button to open control panel of time series layer is at the left bottom of map area. This button is displayed only when being logged in as ASTER or PALSAR user. Also, this button is displayed when the map projection is Lat Lon only. In case the map projection is North

Pole or South Pole, this button is not shown (Time series display of background image is not available for North Pole and South Pole).

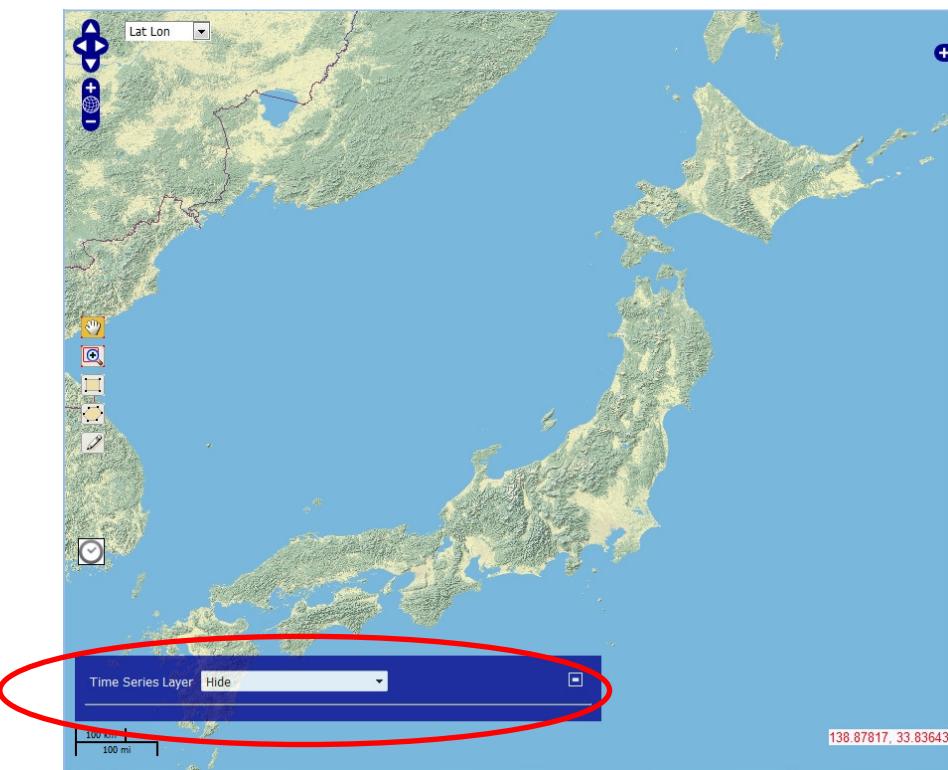
When using time series layers, layers other than the below cannot be displayed on the map.

- city and town
- mountain and lake
- National Boundary



**Fig. 3.8-1 Button to open control panel of time series layers**

Click the button to open control panel of time series layers.



**Fig. 3.8-2 Open control panel of time series layers**

Select a time series layer. The below figure is the close-up of control panel.



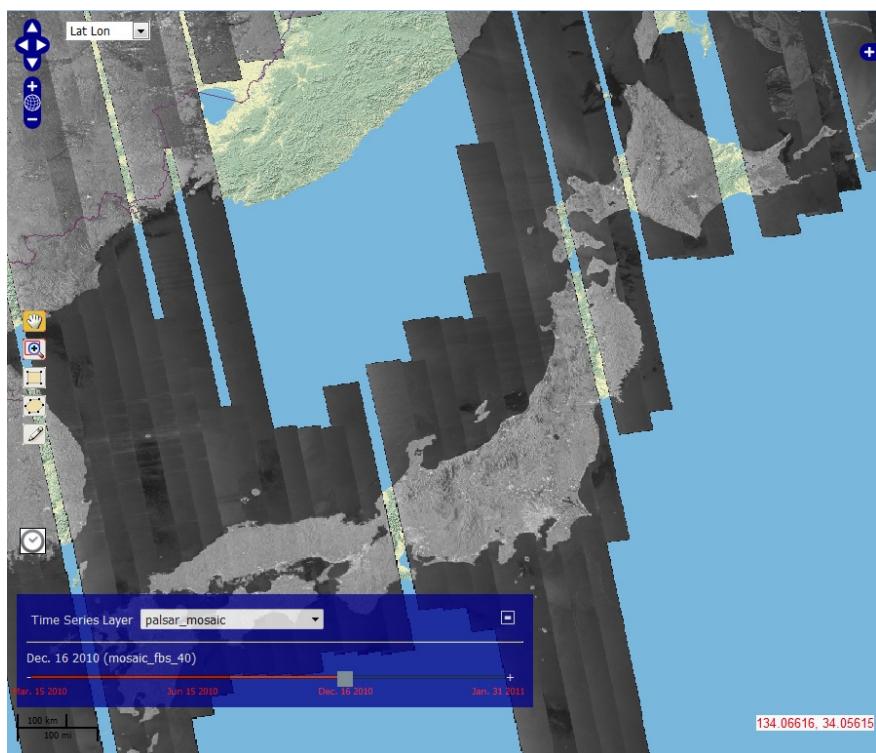
**Fig. 3.8-3 Close-up of time-series layers control panel**

**Table 3.8-1 Contents of Control Panel of Time Series Layers**

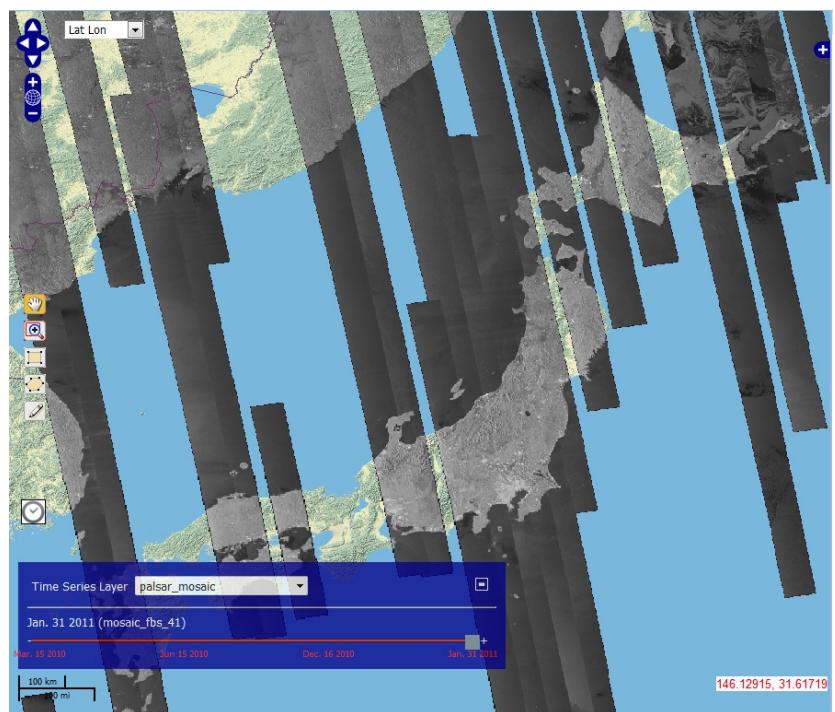
No.	Contents	Description
(1)	Drop-down list for Time Series Layers	Time series layer to display is selected from this list
(2)	Button to close	Control panel is closed.
(3)	Recurrent Information	Recurrence information is displayed according to the slider position
(4)	Slider to choose recurrence	When a recurrence is chosen, the corresponding mosaic image is overlaid on map.

		<p>Slider is adjustable right and left by mouse.</p> <p>Arrow keys of key board can move the slider when the slider is active.</p> <p>+ and -buttons can move slider right and left.</p>
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Choose a recurrence using the slider, and the mosaic image corresponding to the chosen recurrence is overlaid on map.



**Fig. 3.8-4 Map with a time series layer overlaid (2010-12-16)**



**Fig. 3.8-5 Map with time series layer overlaid (2011-01-31)**